CDX-705/EXCD-3

SERVICE MANUAL

Ver 1.1 2001.08

US Model
Canadian Model
CDX-705/EXCD-3
AEP Model
UK Model
E Model
CDX-705

Photo: CDX-705

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-250A-137
Optical Pick-up Name	KSS-521A/J2RP

SPECIFICATIONS

System	Compact disc digital audio system
Laser diode properties	
	Material: GaAlAs
	Wavelength: 780 nm
	Emission Duration: Continuous
	Laser out-put Power: Less than 44.6 µW*
	* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	10-20,000 Hz
Wow and flutter	Below the measurable limit
Signal-to-noise ratio	94 dB
Outputs	BUS control output (8 PIN)
	Analog audio output (RCA PIN)
Current drain	800 mA (during CD playback)
	800 mA (during loading or ejecting a disc)
Operating temperature	
	–10 ºC to +55 ºC
Dimensions	Approx. 262 × 90 × 181.5 mm
	(10 3/8 × 3 5/8 × 7 1/4 in.) (w/h/d)
	not incl. projecting parts and controls
Mass	Approx. 2.1 kg (4 lb. 10 oz.)
Power requirement	12 VDC car battery
	(negative ground)
Supplied accessories	Disc magazine (1)
	Parts for installation and connections (1 set)

Design and specifications subject to change without notice.

COMPACT DISC CHANGER

9-925-527-12
2001H0500-1
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Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

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SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Laser Diode Properites
- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 µW*
  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

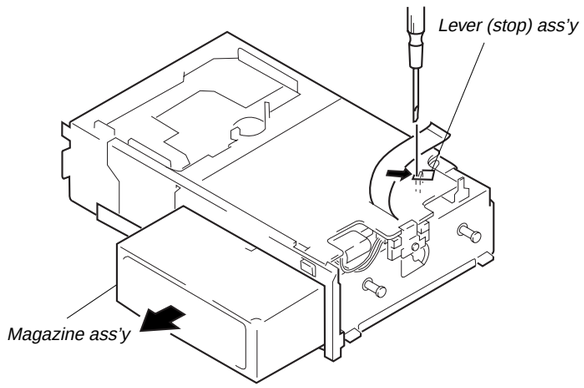
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the CASE (LOWER) assembly beforehand

1) Press the lever (stop) assy to arrow direction.
2) Removal the magazine assy.

Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.



SECTION 1
GENERAL

This section is extracted from CDX-705's instruction manual.

Installation

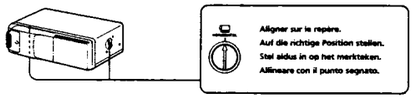
Précautions

- Choisir l'emplacement de montage en tenant compte des observations suivantes :
  - exposé à des températures supérieures à 55°C (comme dans une voiture garée en plein soleil).
  - en plein soleil.
  - près d'une source de chaleur (comme un chauffage).
  - exposé à la pluie ou à l'humidité.
  - poussiéreux ou sale.
  - exposé à des vibrations excessives.
  - Vérifier que le réservoir d'essence ne risque pas d'être endommagé par les vis taraudeuses.
  - Il ne doit pas y avoir de faisceau de fils ou de tuyaux à l'emplacement du montage.
  - Vérifier que l'appareil ou les vis ne risquent pas d'endommager ou de gêner la roue de secours, les outils, ou tout autre objet dans le coffre.
- Pour garantir la sécurité de l'installation, utiliser uniquement le matériel de montage fourni.
- Utiliser uniquement les vis fournies.

Installation de l'appareil

Installation horizontale

1



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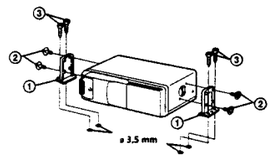
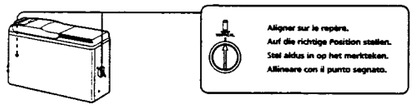
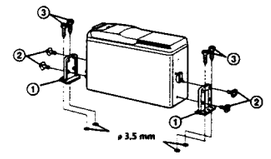


Installation verticale

1



2



Installation suspendue

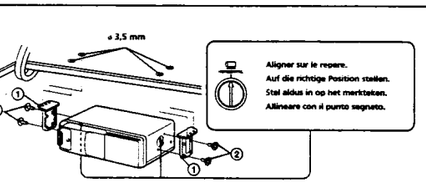
Si l'appareil doit être installé sous la plage arrière dans le coffre par exemple, observer les précautions suivantes.

- Bien choisir l'emplacement pour pouvoir installer l'appareil à l'horizontale.
- Vérifier que l'appareil ne gêne pas les mouvements du ressort de fermeture du coffre, entre autres.

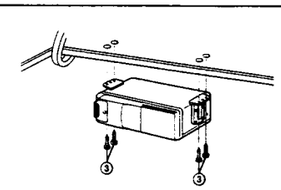
Installation inclinée

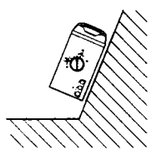
Après avoir installé l'appareil, alignez le disque sur l'un des repères afin que la flèche soit aussi proche que possible de la position verticale.

1

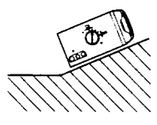


2

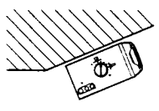




Remarque
Veillez à aligner les disques gauche et droite sur le même repère.



Hinweis
Achten Sie darauf, den linken und rechten Dial-Ring an derselben Markierung auszurichten.



Opmerking
Zet de linker-en de rechterring op dezelfde stand.

Nota
Accertarsi di allineare le manopole di sinistra e di destra alla stessa tacca.

Installation

Sicherheitsmaßnahmen

- Bei der Wahl des Einbauortes ist folgendes zu beachten:
  - Das Gerät darf keinen Temperaturen über 55 °C ausgesetzt sein, wie sie z. B. in einem in der Sonne geparkten Fahrzeug auftreten können.
  - Das Gerät darf keiner direkten Sonneneinstrahlung ausgesetzt sein.
  - Das Gerät muß von Wärmequellen (z. B. der Heizung) ferngehalten werden.
  - Das Gerät darf weder Regen noch Feuchtigkeit ausgesetzt sein.
  - Das Gerät darf keinem übermäßigen Staub oder anderer Verschmutzung ausgesetzt sein.
  - Das Gerät darf keinen übermäßigen Vibrationen ausgesetzt sein.
  - Der Tank darf durch die Schneidschrauben nicht beschädigt werden.
  - Unter der Fläche, auf die das Gerät montiert werden soll, dürfen sich keine Kabelbäume oder Leitungen befinden.
  - Ersatzreifen, Werkzeug usw. im oder unter dem Kofferraum dürfen durch die Schneidschrauben nicht beschädigt werden.
    Achten Sie auch darauf, daß die Herausnahme des Ersatzreifens, Werkzeugs usw. nicht durch das Gerät behindert wird.
- Für sicheren und stabilen Einbau verwenden Sie ausschließlich die mitgelieferten Befestigungsteile.
- Verwenden Sie ausschließlich die mitgelieferten Schrauben.

Installation des Gerätes

Horizontaler Einbau

1

2

Vertikaler Einbau

1

2

Hängender Einbau

Bei hängender Installation unter der Heckablage usw. im Kofferraum beachten Sie folgende Vorsichtsmaßnahmen:

- Wählen Sie den Befestigungsort sorgfältig so aus, daß die Einheit horizontal montiert werden kann.
- Achten Sie darauf, daß das Gerät die Heckklappendämpfer usw. nicht behindert.

Hängender Einbau

1

2

Installation in geneigter Position

Nach dem Installieren des Geräts richten Sie den Dial-Ring an einer der Markierungen aus, so daß der Pfeil möglichst senkrecht steht.

Hinweis
Achten Sie darauf, den linken und rechten Dial-Ring an derselben Markierung auszurichten.

Opmerking
Zet de linker-en de rechterring op dezelfde stand.

Nota
Accertarsi di allineare le manopole di sinistra e di destra alla stessa tacca.

Installeren

Voorzorgsmaatregelen

- Kies de plaats van opstelling met zorg, zodat het toestel niet:
  - onderhevig is aan temperaturen boven de 55°C (zoals in een auto geparkeerd in de volle zon);
  - steeds blootgesteld wordt aan direkt zonlicht;
  - te dicht bij een warmtebron komt (zoals een autoverwarming);
  - nat kan worden, door regen, vocht of opspattend water;
  - in kontakt komt met veel stof of vuil;
  - onderhevig is aan sterke trillingen of schokken.
  - Let op dat de plaatschroeven de benzinetank niet beschadigen.
  - Kontroleer of onder de plaats waar u het apparaat wilt monteren geen bedrading of leidingen lopen.
  - Houd bij het monteren rekening met het reservewiel, gereedschappen en eventueel in de kofferruimte aanwezige andere apparaten, zodat deze de compact disc wisselaar niet in de weg zitten, noch beschadigd kunnen worden door de montageschroeven van de laatste.
- In het belang van een veilige en stevige montage dient u uitsluitend het bijgeleverde montagemateriaal te gebruiken.
- Gebruik enkel de meegeleverde schroeven.

Installatie van het apparaat

Horizontaal installeren

1

2

Vertikaal installeren

1

2

Hangend installeren

Als u het apparaat onder de hoedenplank of iets dergelijks wilt installeren, let dan op de volgende punten:

- Kies een geschikte plek waar u het apparaat horizontaal kunt ophangen.
- Vergewis u ervan dat het apparaat niet beschadigd kan worden door bewegende onderdelen zoals een kofferdeksel, de veren van de viifde deur, enz.

Hangend installeren

1

2

Niet-horizontale plaatsing

Zodra de eenheid geplaatst is, draait u de ring op een stand waarbij de pijl zoveel mogelijk in een vertikale positie staat.

Remarque
Veillez à aligner les disques gauche et droite sur le même repère.

Hinweis
Achten Sie darauf, den linken und rechten Dial-Ring an derselben Markierung auszurichten.

Opmerking
Zet de linker-en de rechterring op dezelfde stand.

Nota
Accertarsi di allineare le manopole di sinistra e di destra alla stessa tacca.

Installazione

Precauzioni

- Scegliere con cura il luogo di installazione, evitando di installare l'apparecchio nei luoghi:
  - soggetti a temperature oltre i 55°C (come in un'auto parcheggiata al sole).
  - esposti alla luce solare diretta.
  - vicini a fonti di calore (come impianti di riscaldamento).
  - esposti alla pioggia o all'umidità.
  - esposti a polvere o sporco eccessivi.
  - soggetti a vibrazioni eccessive.
  - Il serbatoio del carburante non deve essere danneggiato dalle viti filettanti.
  - Non devono essere presenti né cavi né tubi sotto il luogo scelto per l'installazione dell'apparecchio.
  - Le viti e l'apparecchio stesso non devono interferire con, o danneggiare, la ruota di scorta, gli attrezzi o altri dispositivi presenti dentro o sotto il bagagliaio.
- Assicurarsi di usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.
- Utilizzare solo le viti in dotazione.

Installazione dell'apparecchio

Installazione in orizzontale

1

2

Installazione in verticale

1

2

Installazione in sospensione

Se l'apparecchio deve essere installato sotto il ripiano posteriore, nel bagagliaio, ecc., assicurarsi di prendere le seguenti precauzioni:

- Scegliere con attenzione il luogo di montaggio in modo che l'apparecchio possa essere installato orizzontalmente.
- Assicurarsi che l'apparecchio non ostacoli il movimento della molla della barra di torsione ecc. del coperchio del cofano.

1

2

Installazione in posizione inclinata

Dopo aver installato l'apparecchio, allineare la manopola ad una delle tacche in modo che la freccia sia il più verticale possibile.

Remarque
Veillez à aligner les disques gauche et droite sur le même repère.

Hinweis
Achten Sie darauf, den linken und rechten Dial-Ring an derselben Markierung auszurichten.

Opmerking
Zet de linker-en de rechterring op dezelfde stand.

Nota
Accertarsi di allineare le manopole di sinistra e di destra alla stessa tacca.

Connexions/Anschluß/ Aansluitingen/Collegamenti

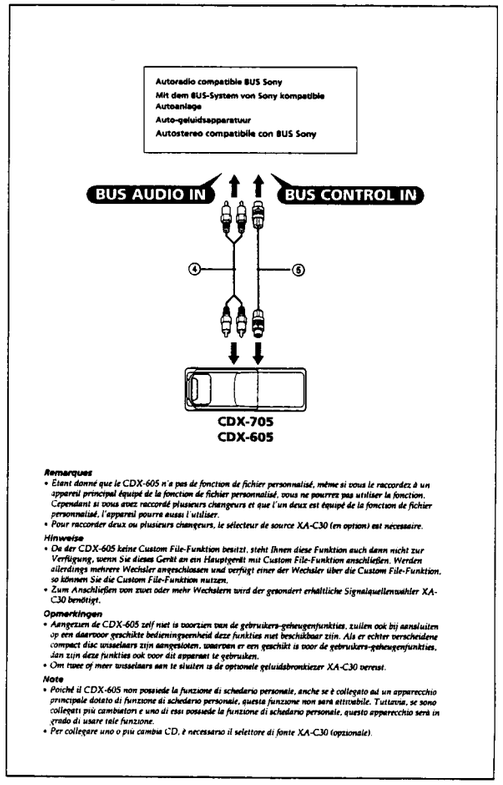
Pour plus de détails, consulter le manuel d'installation/connexions de chaque produit.

Einzelheiten entnehmen Sie der Installations/Anschluß-Anleitung des betreffenden Geräts.

Zie voor nadere bijzonderheden de gebruiksaanwijzing voor installatie en aansluitingen van de aan te sluiten apparatuur.

Per i dettagli, fare riferimento ai manuale di installazione/collegamenti di ciascun prodotto.

Schéma de connexions/Anschlußdiagramm/Aansluitingsschema/ Schema di collegamento



Remarques

- *Etant donné que le CDX-605 n'a pas de fonction de fichier personnalisé, même si vous le raccordez à un appareil principal équipé de la fonction de fichier personnalisé, vous ne pourrez pas utiliser la fonction. Cependant si vous avez raccordé plusieurs changeurs et que l'un deux est équipé de la fonction de fichier personnalisé, l'appareil pourra aussi l'utiliser.*
- *Pour raccorder deux ou plusieurs changeurs, le sélecteur de source XA-C30 (en option) est necessaire.*

Hinweise

- *Da der CDX-605 keine Custom File-Funktion besitzt, steht Ihnen diese Funktion auch dann nicht zur Verfügung, wenn Sie dieses Gerät an ein Hauptgerät mit Custom File-Funktion anschließen. Werden allerdings mehrere Wechsler angeschlossen und verfügt einer der Wechsler über die Custom File-Funktion, so können Sie die Custom File-Funktion nutzen.*
- *Zum Anschließen von zwei oder mehr Wechslern wird der getrennt erhältliche Signalquellenwähler XA-C30 benötigt.*

Opmerkingen

- *Aangezien de CDX-605 zelf niet is voorzien van de gebruikers-gebeugenfunkties, zullen ook bij aansluiten op een daarvoor geschikte bedieningseenheid deze funkties niet beschikbaar zijn. Als er echter verscheidene compact disc wisselaars zijn aangesloten, waarvan er een geschikt is voor de gebruikers-gebeugenfunkties, dan zijn deze funkties ook voor dit apparaat te gebruiken.*
- *Om twee of meer wisselaars aan te sluiten is de optionele geluidsbronkiezer XA-C30 vereist.*

Note

- *Poiché il CDX-605 non possiede la funzione di schedario personale, anche se è collegato ad un apparecchio principale dotato di funzione di schedario personale, questa funzione non sarà attivabile. Tuttavia, se sono collegati più cambiadischi e uno di essi possiede la funzione di schedario personale, questo apparecchio sarà in grado di usare tale funzione.*
- *Per collegare uno o piu cambia CD, è necessario il selettore di fonte XA-C30 (opzionale).*

Précautions

Remarque sur la condensation d'humidité

Par temps pluvieux ou dans des régions très humides, de la condensation peut se former sur les lentilles à l'intérieur de l'appareil. Dans ce cas, l'appareil ne fonctionne pas correctement. Retirez alors le chargeur de disques et attendez environ une heure jusqu'à ce que la condensation se soit évaporée.

Sicherheitsmaßnahmen

Hinweis zur Feuchtigkeitskondensation

Bei Regen oder bei sehr hoher Luftfeuchtigkeit kann sich auf den Linsen im Inneren des Geräts Feuchtigkeit niederschlagen. In diesem Fall funktioniert das Gerät nicht mehr richtig. Nehmen Sie das CD-Magazin heraus, und warten Sie ca. eine Stunde, bis die Feuchtigkeit verdunstet ist.

Voorzorgsmaatregelen

Betreffende kondensvocht

Op een regenachtige dag of bij gebruik in een vochtige omgeving kan op de lenzen in het apparaat vocht uit de lucht kondenseren. Kondensvocht op de lenzen kan de werking van het apparaat belemmeren. Als dit zich voordoet, verwijder dan het disc-magazijn en laat het apparaat ongeveer een uur lang in een warme omgeving ongebruikt staan, tot al het kondensvocht verdampt is.

Precauzioni

Condensazione di umidità

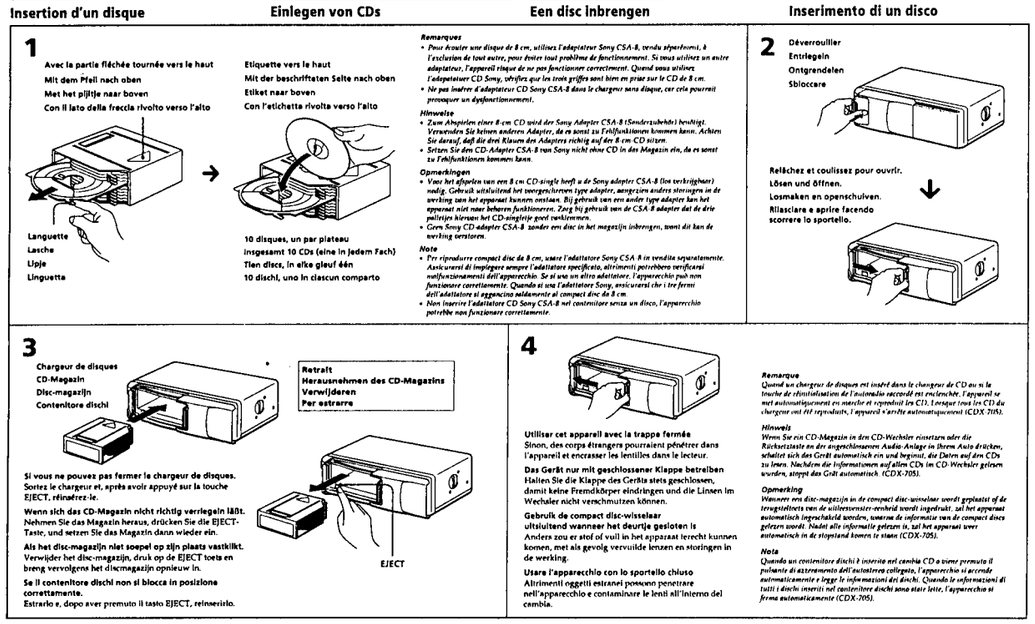
In giorni piovosi in zone molto umide l'umidità può condensarsi sulle lenti all'interno dell'apparecchio. Se ciò si verifica, l'apparecchio non funziona. Rimuovere il contenitore dischi e aspettare circa un'ora, fino a che l'umidità non è evaporata.

Insertion d'un disque

Einlegen von CDs

Een disc inbrengen

Inserimento di un disco


1
Avec la partie fléchée tournée vers le haut
Mit dem Pfeil nach oben
Met het pijltje naar boven
Con il lato della freccia rivolto verso l'alto
Languette
Lasche
Lipje
Linguetta
Etiquette vers le haut
Mit der beschrifteten Seite nach oben
Etiket naar boven
Con l'etichetta rivolta verso l'alto
10 disques, un par plateau
Insgesamt 10 CDs (eine in jedem Fach)
Tien discs, in elke gleuf één
10 dischi, uno in ciascun comparto
Remarques
• Pour écouter une disque de 8 cm, utilisez l'adaptateur Sony CSA-8, vendu séparément, à l'exclusion de tout autre, pour éviter tout problème de fonctionnement. Si vous utilisez un autre adaptateur, l'appareil risque de ne pas fonctionner correctement. Quand vous utilisez l'adaptateur CD Sony, vérifiez que les trois griffes sont bien en prise sur le CD de 8 cm.
• Ne pas insérer d'adaptateur CD Sony CSA-8 dans le chargeur sans disque, car cela pourrait provoquer un dysfonctionnement.
Hinweise
• Zum Abspielen eines 8-cm CD wird der Sony Adapter CSA-8 (Sonderzubehör) benötigt. Verwenden Sie keinen anderen Adapter, da es sonst zu Fehlfunktionen kommen kann. Achten Sie darauf, daß die drei Klauen des Adapters richtig auf der 8-cm CD sitzen.
• Setzen Sie den CD-Adapter CSA-8 von Sony nicht ohne CD in das Magazin ein, da es sonst zu Fehlfunktionen kommen kann.
Opmerkingen
• Voor het afspelen van een 8 cm CD-single heeft u de Sony adapter CSA-8 (los verkrijgbaar) nodig. Gebruik uitsluitend het voorgeschreven type adapter, aangezien andere storingen in de werking van het apparaat kunnen ontstaan. Bij gebruik van een ander type adapter kan het apparaat niet naar behoren functioneren. Zorg bij gebruik van de CSA-8 adapter dat de drie palletjes hiervan het CD-singletje goed vasthemmen.
• Geen Sony CD-adapter CSA-8 zonder een disc in het magazijn inbrengen, want dit kan de werking verstoren.
Note
• Per riprodurre compact disc da 8 cm, usare l'adattatore Sony CSA-8 in vendita separatamente. Assicurarsi di inserire sempre l'adattatore specificato, altrimenti potrebbero verificarsi malfunzionamenti dell'apparecchio. Se si usa un altro adattatore, l'apparecchio può non funzionare correttamente. Quando si usa l'adattatore Sony, assicurarsi che i tre fermi dell'adattatore si aggancino saldamente al compact disc da 8 cm.
• Non inserire l'adattatore CD Sony CSA-8 nel contenitore senza un disco, l'apparecchio potrebbe non funzionare correttamente.
2
Déverrouiller
Entriegeln
Ontgrendelen
Sbloccare
Relâchez et coulissez pour ouvrir.
Lösen und öffnen.
Losmaken en openschuiven.
Rilasciare e aprire facendo scorrere lo sportello.
3
Chargeur de disques
CD-Magazin
Disc-magazijn
Contenitore dischi
Retrait
Herausnehmen des CD-Magazins
Verwijderen
Per estrarre
Si vous ne pouvez pas fermer le chargeur de disques. Sortez le chargeur et, après avoir appuyé sur la touche EJECT, réinsérez-le.
Wenn sich das CD-Magazin nicht richtig verriegeln läßt. Nehmen Sie das Magazin heraus, drücken Sie die EJECT-Taste, und setzen Sie das Magazin dann wieder ein.
Als het disc-magazijn niet soepel op zijn plaats vastklikt. Verwijder het disc-magazijn, druk op de EJECT toets en breng vervolgens het discmagazijn opnieuw in.
Se il contenitore dischi non si blocca in posizione correttamente. Estrarlo e, dopo aver premuto il tasto EJECT, reinserirlo.
EJECT
4
Utilisez cet appareil avec la trappe fermée
Sinon, des corps étrangers pourraient pénétrer dans l'appareil et encrasser les lentilles dans le lecteur.
Das Gerät nur mit geschlossener Klappe betreiben
Halten Sie die Klappe des Geräts stets geschlossen, damit keine Fremdkörper eindringen und die Linsen im Wechsler nicht verschmutzen können.
Gebruik de compact disc-wisselaar uitsluitend wanneer het deurtje gesloten is
Anders zou er stof of vuil in het apparaat terecht kunnen komen, met als gevolg vervuilde lenzen en storingen in de werking.
Usare l'apparecchio con lo sportello chiuso
Altrimenti oggetti estranei possono penetrare nell'apparecchio e contaminare le lenti all'interno del cambia.
Remarque
Quand un chargeur de disques est inséré dans le changeur de CD ou si la touche de réinitialisation de l'autoradio succédé est enclenchée, l'appareil se met automatiquement en marche et reproduit les CD. Lorsque tous les CD du chargeur ont été reproduits, l'appareil s'arrête automatiquement (CDX-705).
Hinweis
Wenn Sie ein CD-Magazin in den CD-Wechsler einsetzen oder die Rücksetztaste an der angeschlossenen Audio-Anlage in Ihrem Auto drücken, schaltet sich das Gerät automatisch ein und beginnt, die Daten auf den CDs zu lesen. Nachdem die Informationen auf allen CDs im CD-Wechsler gelesen wurden, stoppt das Gerät automatisch. (CDX-705).
Opmerking
Wanneer een disc-magazijn in de compact disc-wisselaar wordt geplaatst of de terugstelknop van de autoradio wordt ingedrukt, zal het apparaat automatisch ingeschakeld worden, tenzij de informatie van de compact discs gelezen wordt. Nadat alle informatie gelezen is, zal het apparaat weer automatisch in de stopstand komen te staan (CDX-705).
Nota
Quando un contenitore dischi è inserito nel cambia CD o viene premuto il pulsante di azzeramento dell'autoradio collegata, l'apparecchio si accende automaticamente e legge le informazioni dei dischi. Quando le informazioni di tutti i dischi inseriti nel contenitore dischi sono state lette, l'apparecchio si ferma automaticamente (CDX-705).

Remarques sur le chargeur de disques

- Ne pas laisser le chargeur de disques dans un endroit très chaud ou très humide comme sur le tableau de bord ou sur la plage arrière d'une voiture où il serait en plein soleil.
- Ne pas insérer plus d'un disque à la fois sur le plateau, sinon le changeur et les disques risquent d'être endommagés.
- Ne pas laisser tomber le chargeur de disques ni le cogner.

Hinweise zum CD-Magazin

- Halten Sie das Magazin von hohen Temperaturen und Feuchtigkeit fern. Lassen Sie es nicht auf dem Armaturenbrett, auf der Heckablage usw. liegen, wo es direktem Sonnenlicht ausgesetzt ist.
- Versuchen Sie nicht, mehr als eine CD in ein Fach einzulegen. Andernfalls können der Wechsler und die CDs beschädigt werden.
- Lassen Sie das Magazin nicht fallen, und schützen Sie es vor Stößen.

Opmerkingen betreffende het disc-magazijn

- Laat het magazijn niet achter op plaatsen waar dit blootgesteld wordt aan vocht of aan hoge temperaturen, zoals op het dashboard van een auto of op de hoedenplank, waar het magazijn in de volle zon staat.
- Steek niet meer dan één enkele disc in een uitsparing, anders kunnen zowel de CD-wisselaar als de compact discs beschadigd worden.
- Laat het apparaat niet vallen en stel het niet bloot aan hevige trillingen of schokken.

Note sul contenitore dischi

- Non lasciare il contenitore dischi in luoghi con temperature elevate o molto umidi, come sul cruscotto o sul ripiano posteriore di un'auto dove il contenitore potrebbe essere esposto alla luce solare diretta.
- Non inserire più di un disco alla volta in ciascun comparto, altrimenti sia cambia CD che i dischi saranno danneggiati.
- Non lasciar cadere il contenitore dischi e non sottoporlo a urti violenti.

Lorsque le plateau sort

En principe, les plateaux ne sortent pas du chargeur. Toutefois, s'ils sortent du chargeur, il est facile de les réinsérer.

Wenn sich ein Fach gelöst hat

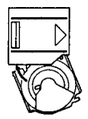
Normalerweise können sich die Fächer nicht vom Magazin lösen. Werden sie jedoch aus dem Magazin herausgezogen, lassen sie sich mühelos wieder anbringen.

Als de houder uitsteekt

Normaal gezien steken de houders niet uit het magazijn. Als ze er toch zouden zijn uitgetrokken, kan u ze er makkelijk weer insteken.

Quando il comparto fuoriesce

Di solito, i comparti non fuoriescono dal contenitore, se ciò dovesse avvenire, è facile reinserirli.



Avec la portion découpée du plateau vous faisant face, insérer le coin droit du plateau dans la fente, puis enfoncer le coin gauche jusqu'au déclic.

Remarque
Ne pas insérer le plateau à l'envers ou dans le mauvais sens.

Hierbei muß die Aussparung des Fachs auf Sie weisen. Setzen Sie dann die rechte Ecke des Fachs in den Einschub ein, und drücken Sie danach die linke Ecke an, bis das Fach mit einem Klicken einrastet.

Hinweis
Versuchen Sie nicht, das Fach mit der falschen Seite nach oben oder verkehrt herum einzusetzen.

Met de uitsparing in de houder naar u toe gericht, brengt u de rechterhoek van de houder in de gleuf en drukt dan de linkerhoek erin tot u een klik hoort.

Opmerking
De houder niet ongekeerd of in de verkeerde richting inbrengen.

Con la parte tagliata del comparto rivolta verso di voi, inserire il lato destro del comparto nell'alloggiamento, quindi inserire l'angolo sinistro fino a che non fa clic.

Nota
Non inserire il vassoio capovolto o nella direzione errata.

Remarques sur les disques compacts

Un disque sale ou défectueux peut provoquer des pertes de son à la lecture. Manipuler le disque comme suit pour obtenir un son optimal.

Manipuler le disque par son arête et le maintenir dans un état propre, ne pas le toucher sur la surface non imprimée.

Ne pas coller de papier ou de bande adhésive sur le disque.

Ne pas laisser les disques en plein soleil ou près d'une source de chaleur comme des conduits d'air chaud. Ne pas laisser les disques dans une voiture garée en plein soleil car la température de l'habitacle risque d'augmenter considérablement.

Avant la lecture, essuyer les disques avec un chiffon de nettoyage optionnel. Essuyer chaque disque dans le sens des flèches.

Ne pas utiliser de solvants tels que de la benzine, du diluant, des produits de nettoyage vendus dans le commerce ou des vaporisateurs anti-statiques destinés aux disques analogiques.

Hinweise zur Compact Disc

Eine verschmutzte oder beschädigte CD kann Tonaussetzer verursachen. Um optimale Klangqualität sicherzustellen, beachten Sie folgendes:

Damit die CD sauber bleibt, fassen Sie sie immer am Rand an, und berühren Sie nicht die Seite ohne Beschriftung.

Kleben Sie weder Papier noch Klebeband auf die CD.

Schützen Sie die CD vor Sonnenlicht und Wärmequellen wie Warmluftauslässen. Lassen Sie sie nicht in einem Auto liegen, das direkt in der Sonne geparkt ist, da die Temperatur im Wageninneren sehr hoch ansteigen kann.

Vor dem Abspielen reinigen Sie die CD mit einem im Handel erhältlichen Reinigungstuch, indem Sie in Pfeilrichtung über die Oberfläche wischen.

Lösungsmittel wie Benzin, Verdünner sowie für Analogplatten bestimmte Reinigungsmittel und Antistatiksprays dürfen nicht verwendet werden.

Opmerkingen betreffende compact discs

Bij het afspelen van een vuile of beschadigde disc kan het geluid regelmatig wegvallen. Voor het verzekeren van een goede geluidsweergave dient u als volgt met discs om te gaan.

Pak een compact disc altijd bij de rand vast, houd hem proper en rank het oppervlak (behalve het labe) niet aan.

Plak geen papier of plakband op een compact disc.

Stel compact discs niet bloot aan direkt zonlicht of warmtebuiskanalen. Laat ze niet liggen in een geparkeerde auto in de volle zon, aangezien de temperatuur hierin bijzonder hoog kan oplopen.

Veeg een compact disc voor het afspelen schoon, bij voorkeur met het los verkrijgbare speciale reinigingsdoekje. Veeg licht over het oppervlak van de compact disc, van het midden naar de rand.

Gebruik voor het reinigen geen oplosmiddelen als benzine of thinner, noch de in de handel verkrijgbare vloeistoffen of anti-statische spray voor het reinigen van konventionele grammofoonplaten.

Note sui compact disc

Un disco sporco o difettoso può causare cadute di suono durante la riproduzione. Per poter ascoltare un suono ottimale, trattare i dischi come indicato.

Prendere i dischi per il bordo e, per tenerli puliti, non toccare la superficie senza etichetta.

Non attaccare carta o nastro adesivo sulla superficie con l'etichetta.

Non esporre i dischi alla luce solare diretta o a fonti di calore come condotti di aria calda. Non lasciarli in veicoli parcheggiati al sole dove può verificarsi un considerevole aumento della temperatura.

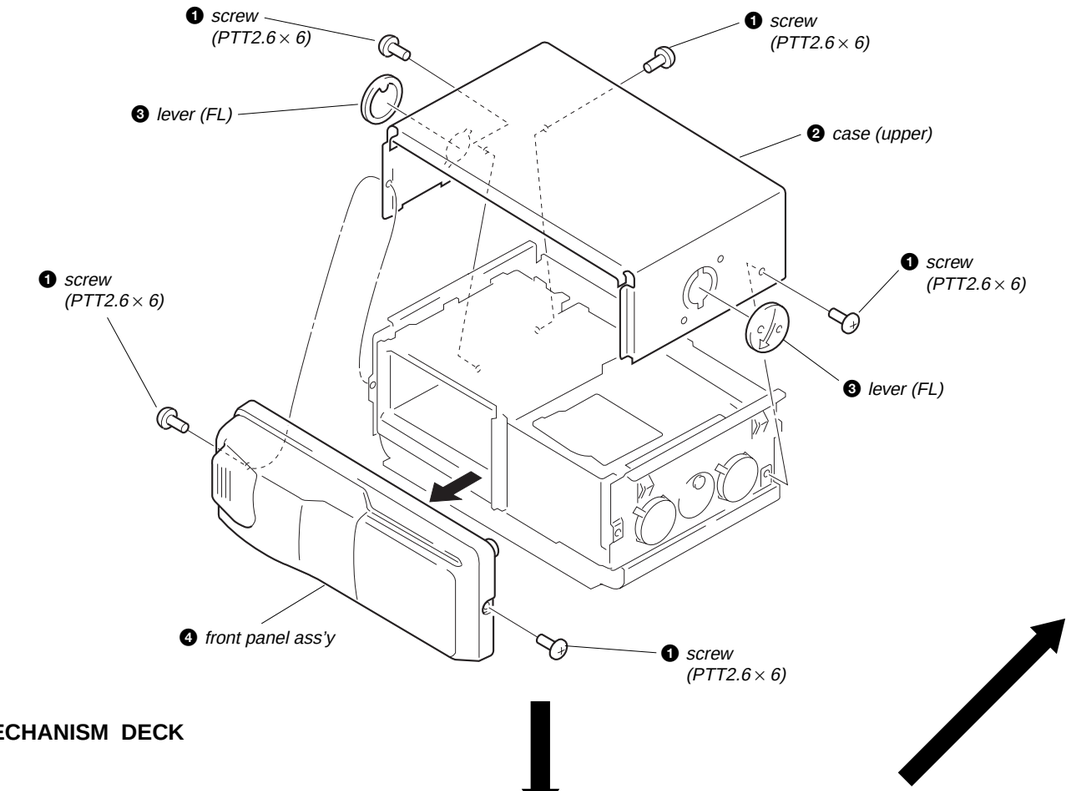
Prima della riproduzione, pulire i dischi con un panno di pulizia opzionale. Pulire i dischi in direzione delle frecce.

Non usare solventi come benzina, acquaragia, pulitori reperibili in commercio o spray antistatici per dischi analogici (normali).

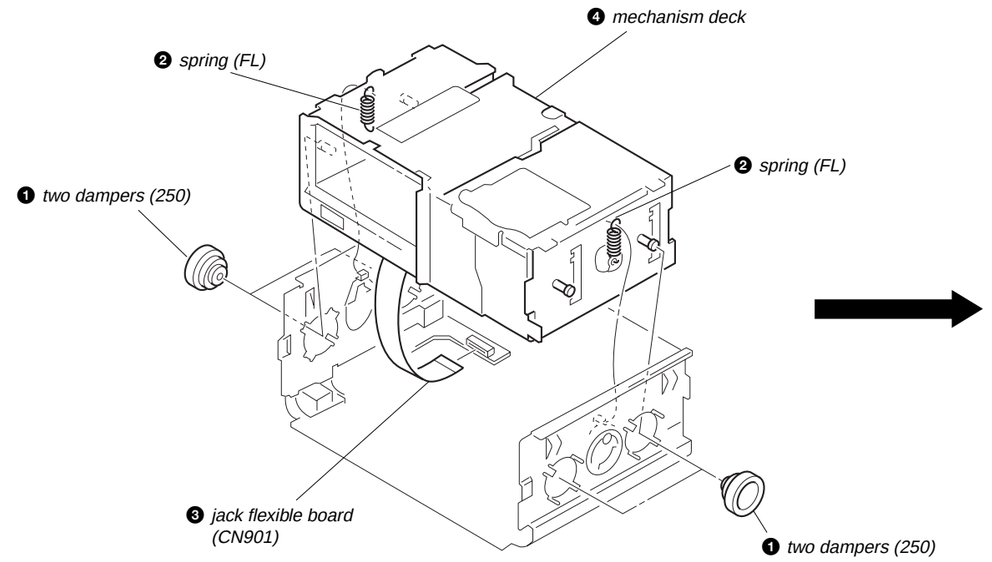
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

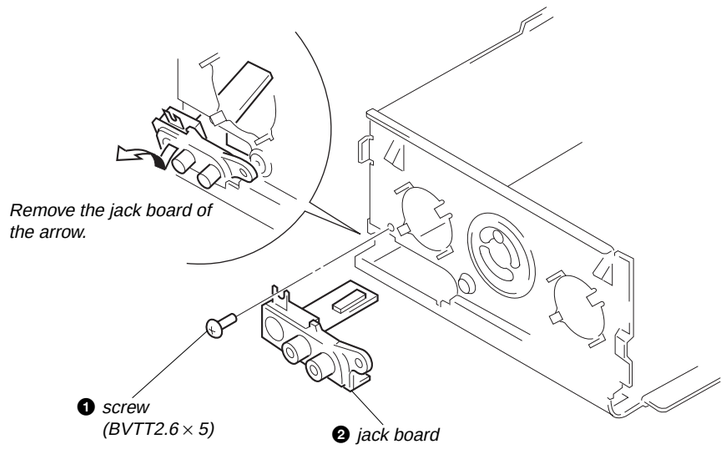
COVER (UPPER), FRONT PANEL ASS'Y


1 screw (PTT2.6 × 6)
1 screw (PTT2.6 × 6)
3 lever (FL)
2 case (upper)
1 screw (PTT2.6 × 6)
1 screw (PTT2.6 × 6)
3 lever (FL)
4 front panel ass'y
1 screw (PTT2.6 × 6)

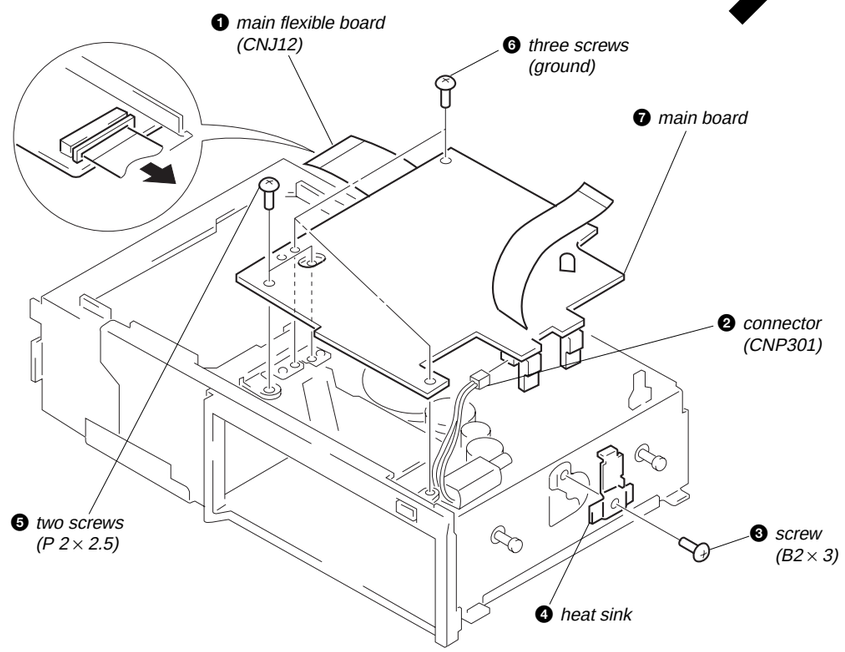
MECHANISM DECK



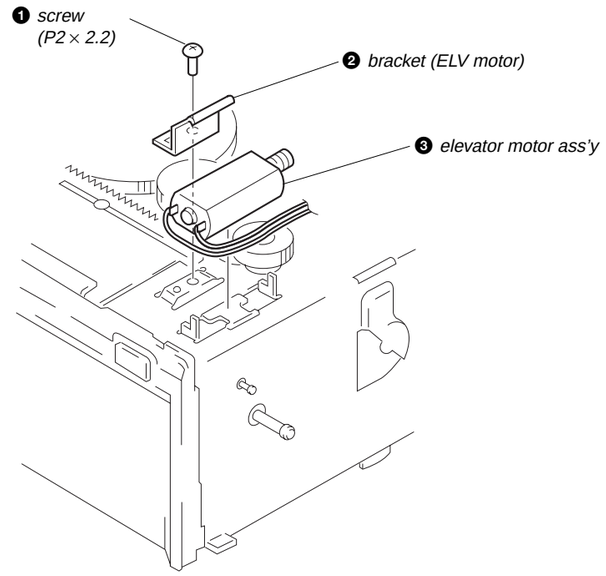
JACK BOARD



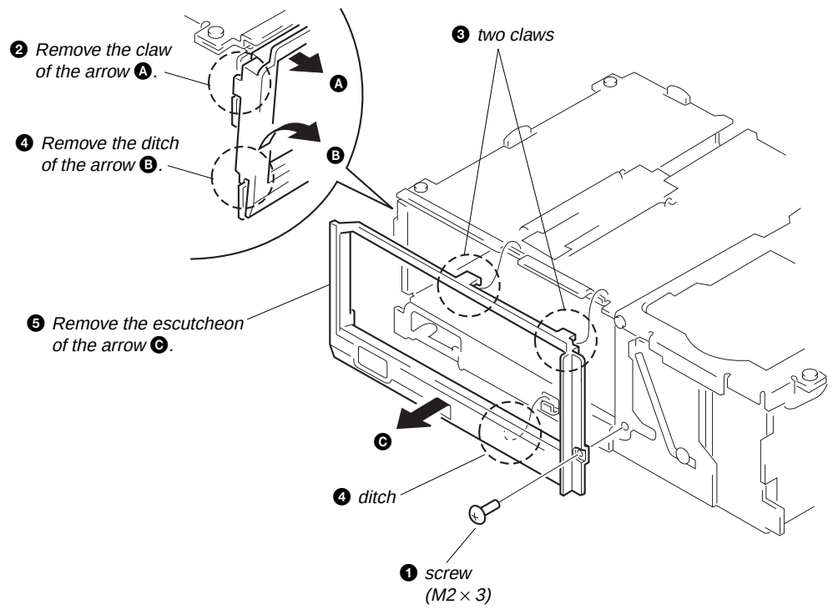
MAIN BOARD



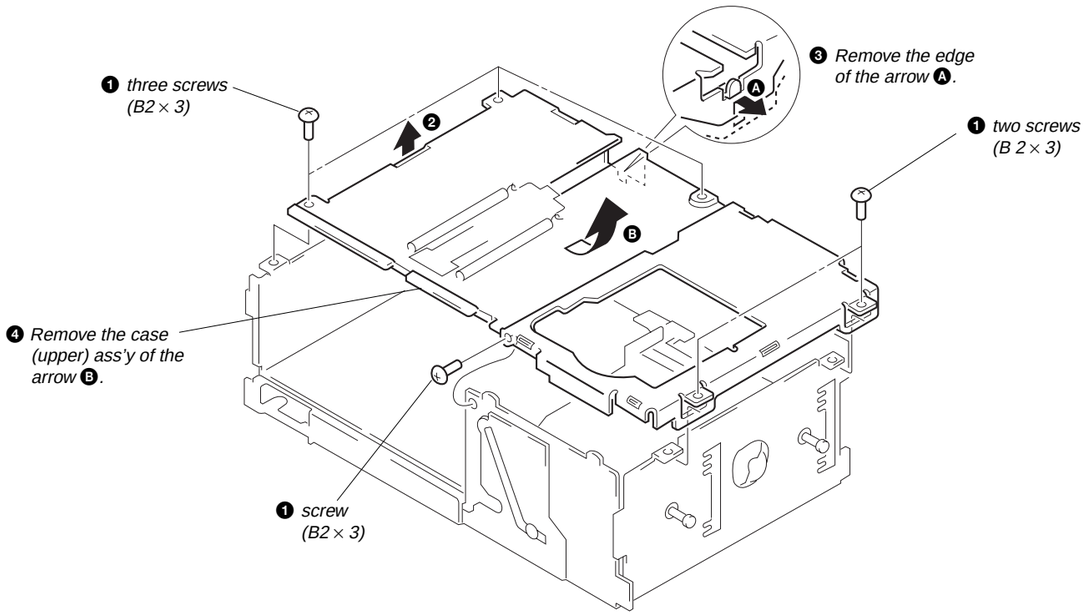
ELEVATOR MOTOR ASS'Y (M104)



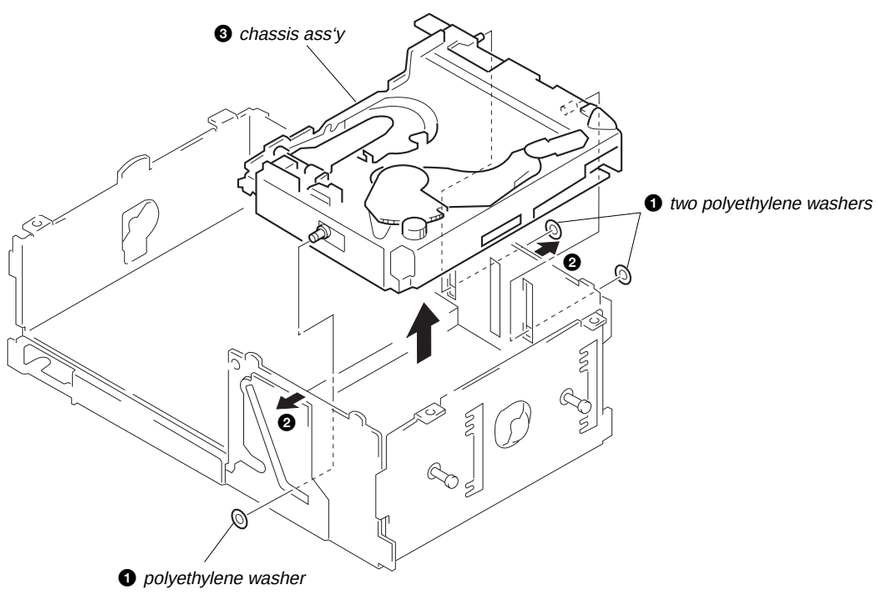
ESCUTCHEON


❷ Remove the claw of the arrow Ⓐ.
❸ two claws
Ⓐ
❹ Remove the ditch of the arrow Ⓑ.
Ⓑ
❺ Remove the escutcheon of the arrow Ⓒ.
Ⓒ
❹ ditch
❶ screw (M2 × 3)

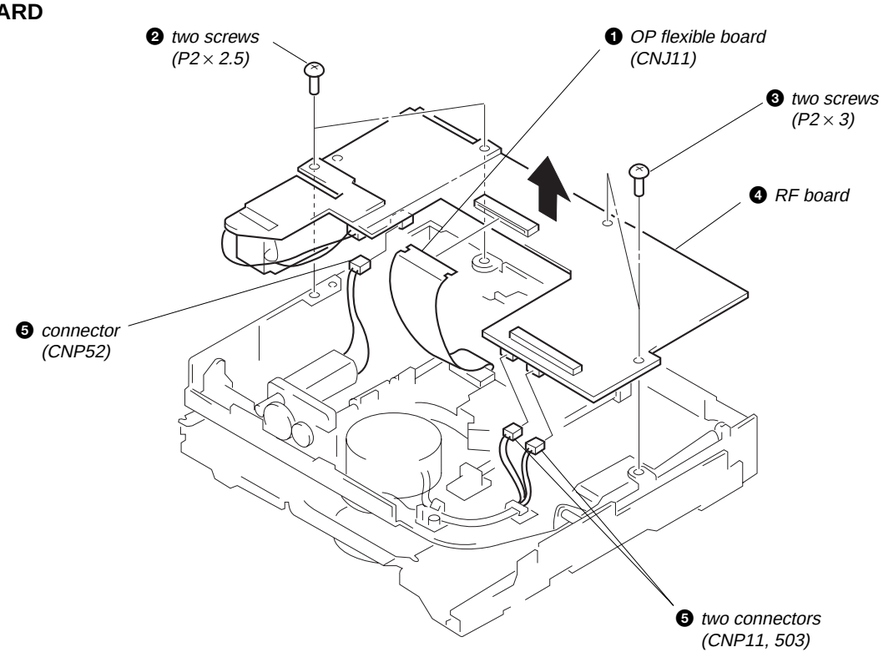
CASE (UPPER) ASS'Y



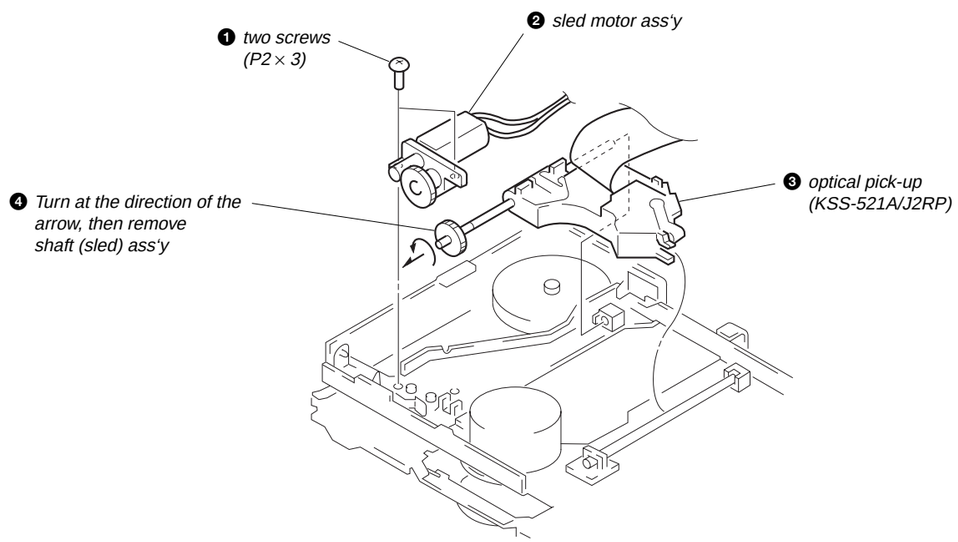
CHASSIS ASS'Y



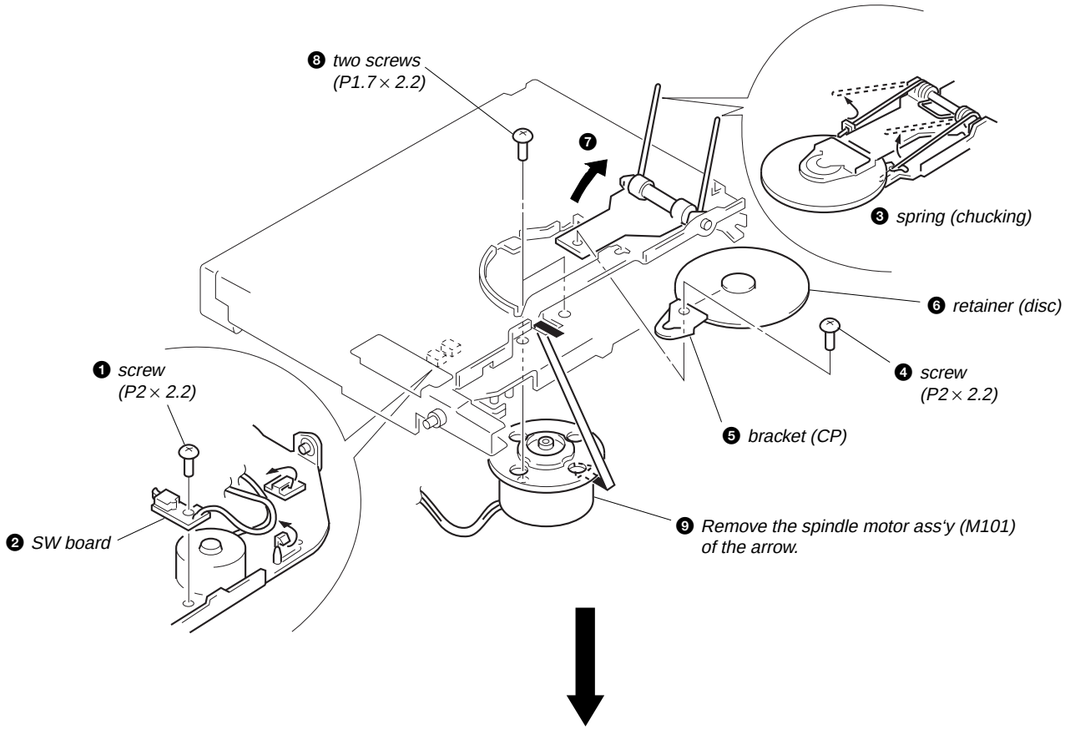
RF BOARD



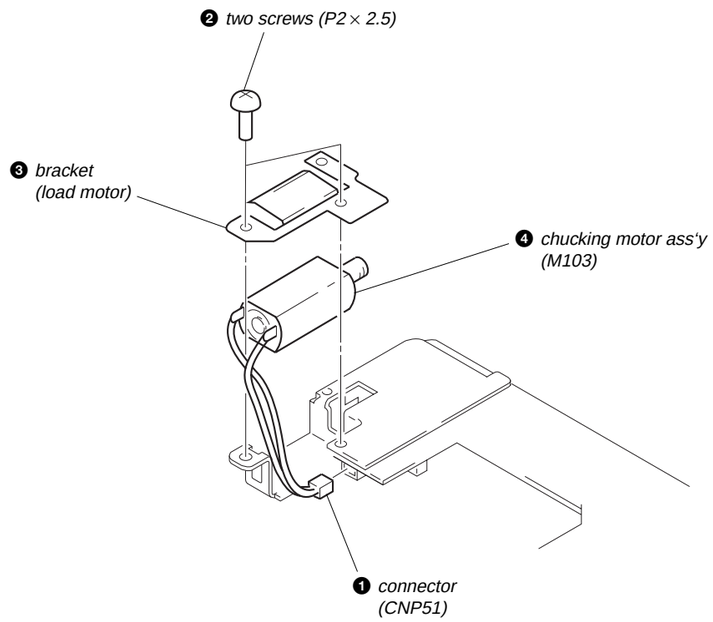
SLED MOTOR ASS'Y (M102), OPTICAL PICK-UP (KSS-521A/J2RP)


❶ two screws (P2 × 3)
❷ sled motor ass'y
❹ Turn at the direction of the arrow, then remove shaft (sled) ass'y
❸ optical pick-up (KSS-521A/J2RP)

SW BOARD, SPINDLE MOTOR ASS'Y (M101)


❽ two screws (P1.7× 2.2)
❼
❸ spring (chucking)
❻ retainer (disc)
❶ screw (P2× 2.2)
❹ screw (P2× 2.2)
❺ bracket (CP)
❷ SW board
❾ Remove the spindle motor ass'y (M101) of the arrow.

CHUCKING MOTOR ASS'Y (M103)



SECTION 3
ELECTRICAL ADJUSTMENTS

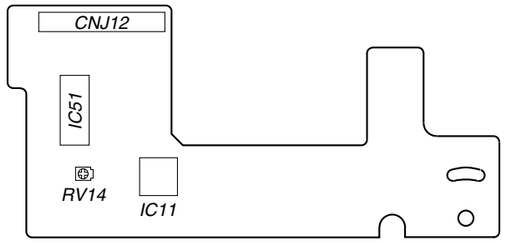
- **FOCUS GAIN ADJUSTMENT (COARSE ADJUSTMENT)**

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV14

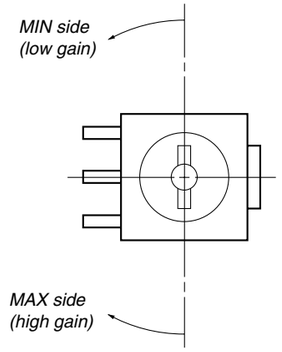
Procedure:

[RF BOARD] – Conductor Side –



1. Set RV14 (RF board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis devise. If there is, turn RV14 slightly clockwise.

[RF BOARD] – Conductor Side –

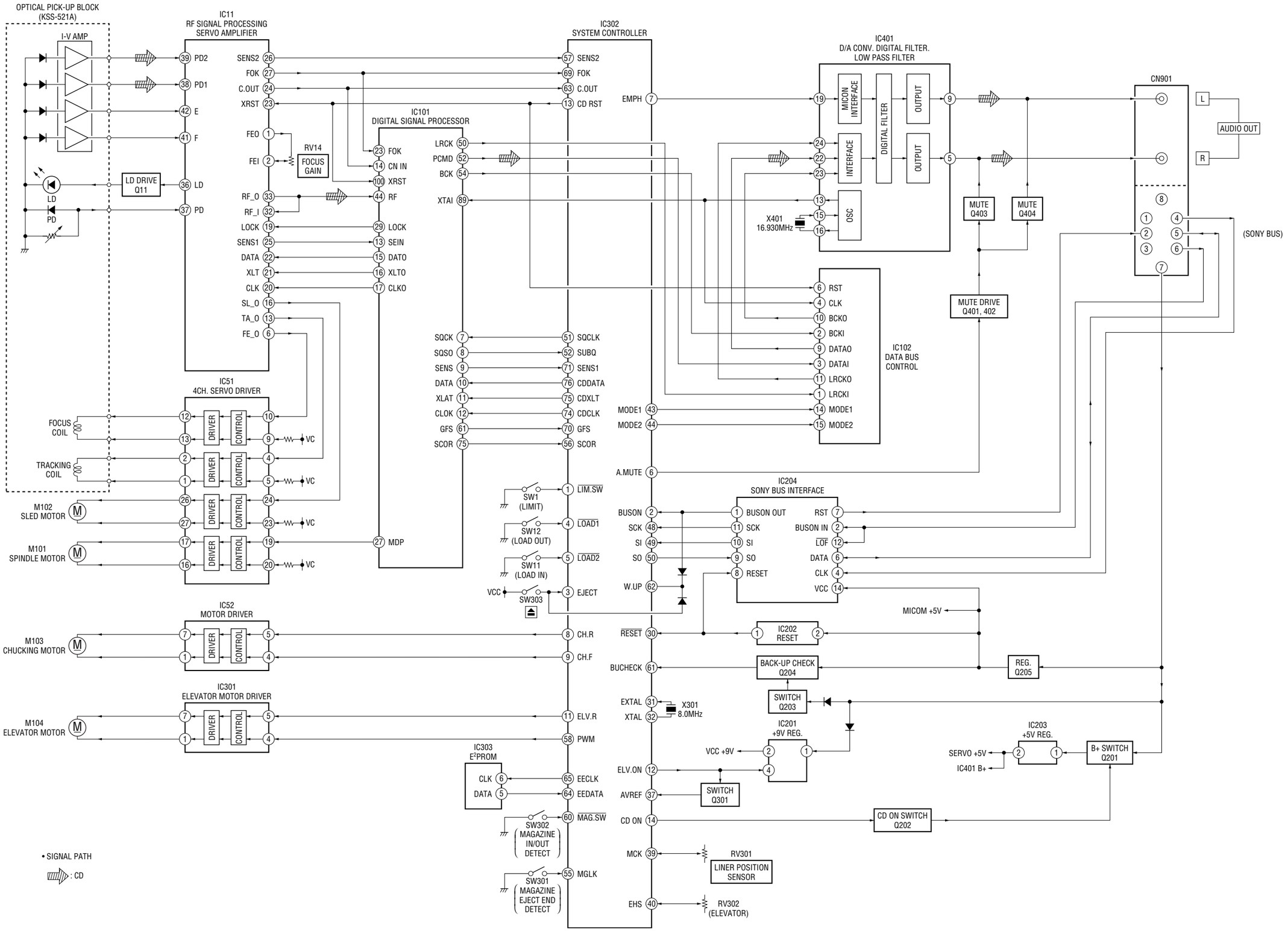


RV14 standard position

- **When gain is lowered...**
  The set does not play because of no focus operation.
- **When gain is highered...**
  Operation noise is heard due to a scratch or a dust, then operation will be unstable.

SECTION 4
DIAGRAMS

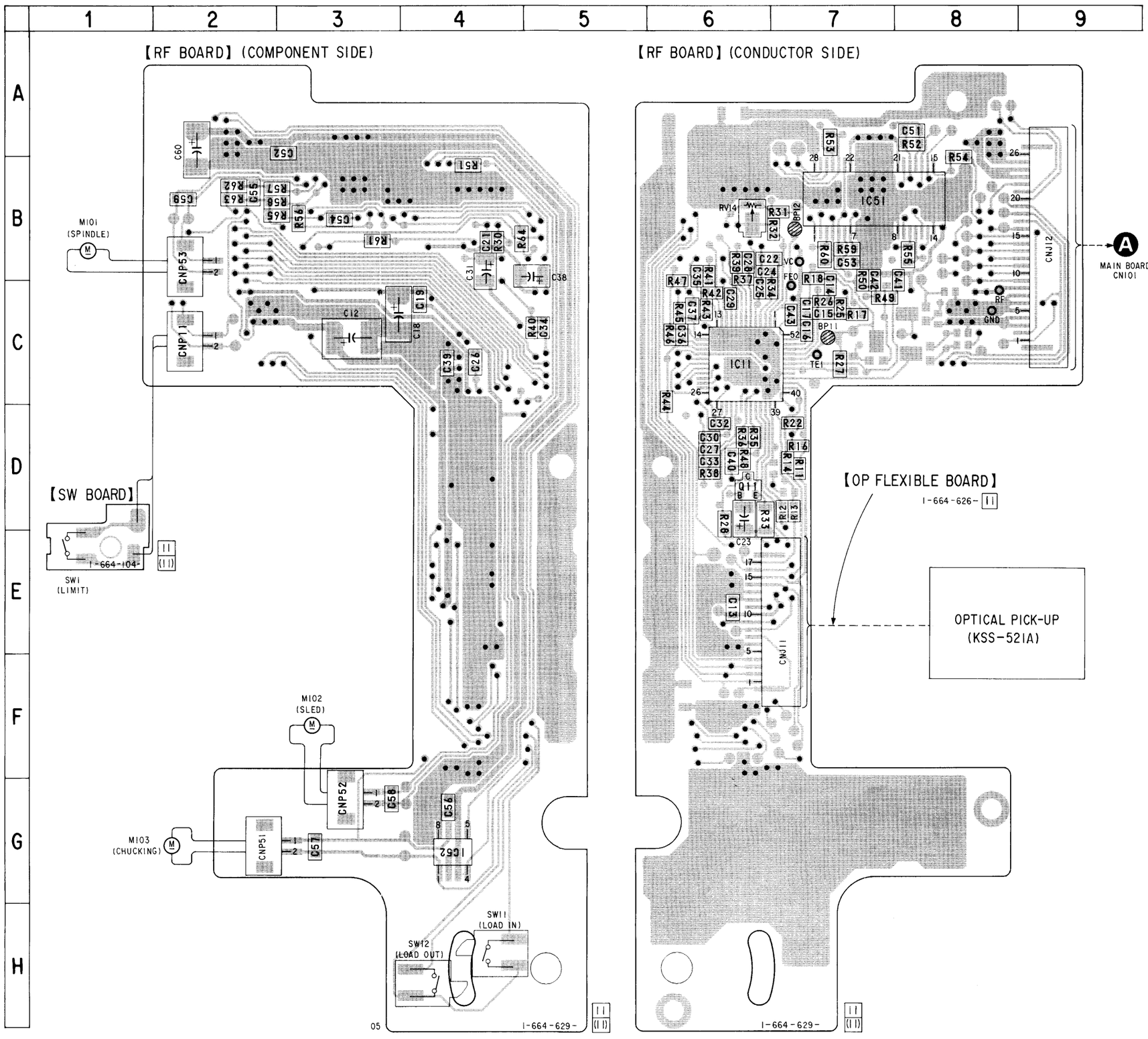
4-1. BLOCK DIAGRAM



4-2. PRINTED WIRING BOARD – RF Section –

• **Semiconductor Location**

Ref. No.	Location
IC11	C-6
IC51	B-7
IC52	G-4
Q11	D-6



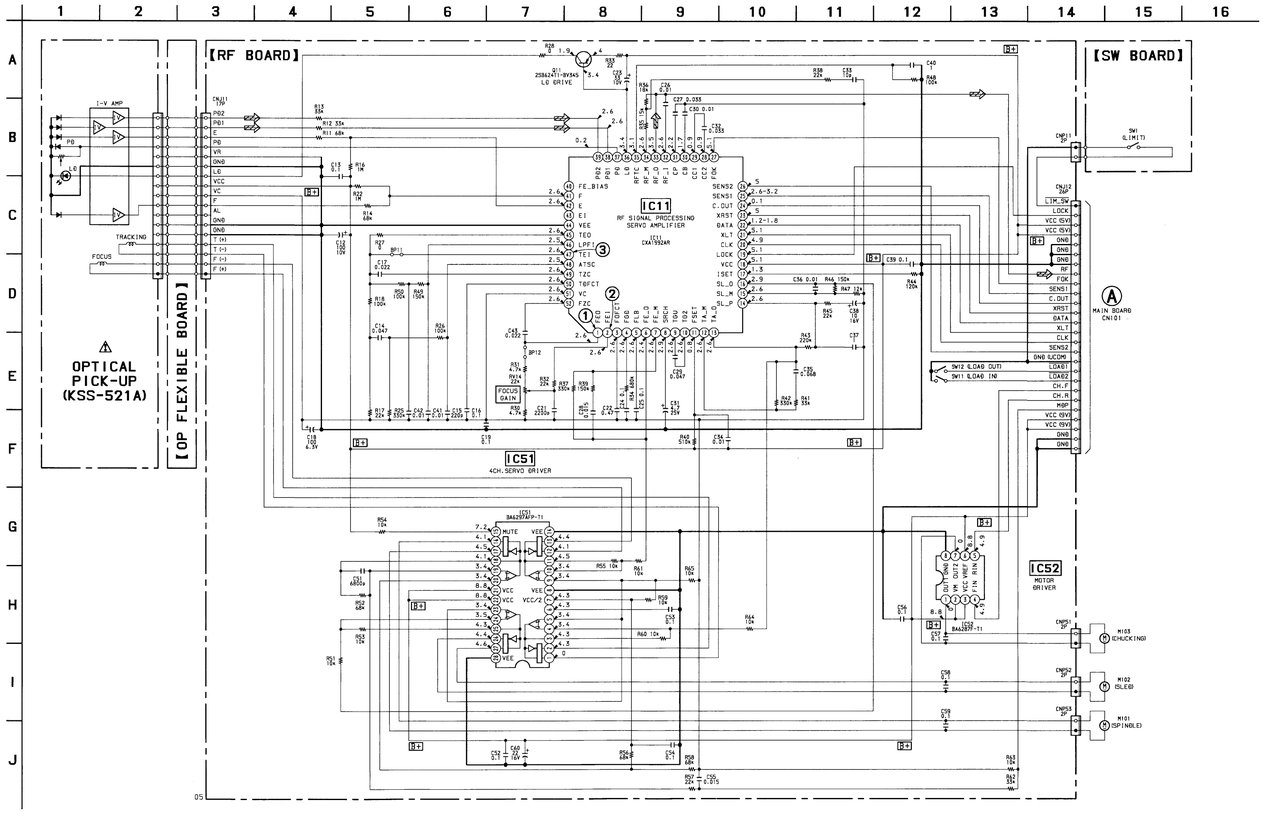
Note on Printed Wiring Board:

- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

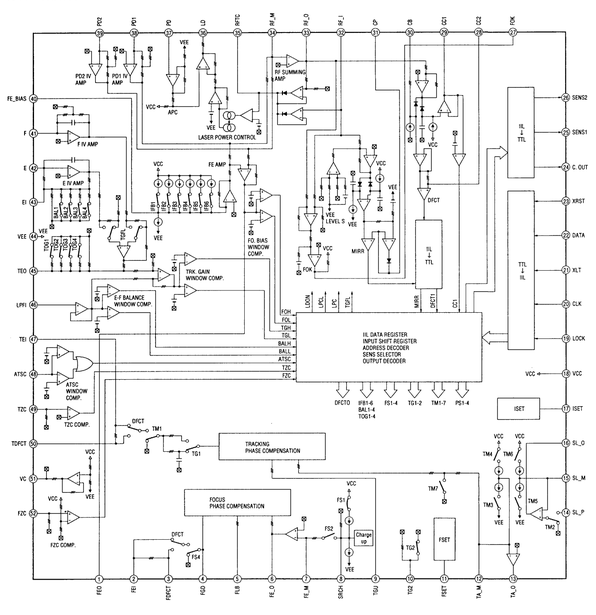
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

4-3. SCHEMATIC DIAGRAM – RF Section –

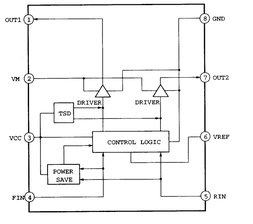


• IC Block Diagrams

IC11 CXA1992AR



IC52 BA6287F



Note on Schematic Diagram:

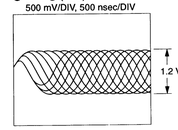
- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

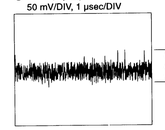
- B+ : B+ Line.
- : adjustment for repair.
- Power voltage is dc 14.4 V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

• Waveforms

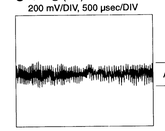
❶ IC11 ① (FEO)
500 mV/DIV, 500 nsec/DIV



❷ IC11 ② (FEI)
50 mV/DIV, 1 µsec/DIV



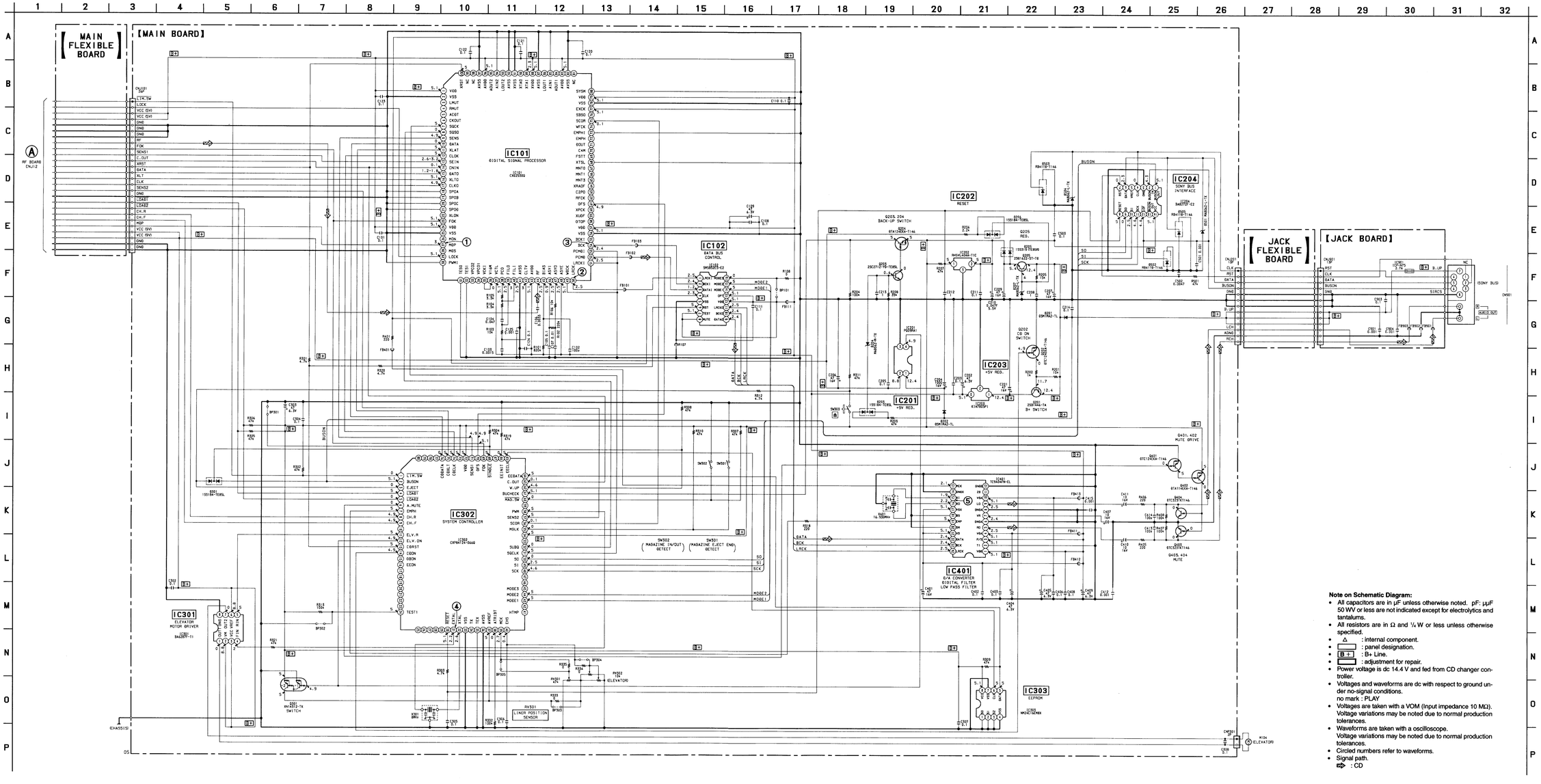
❸ IC11 ⑭ (TEI)
200 mV/DIV, 500 µsec/DIV



4-4. SCHEMATIC DIAGRAM – MAIN Section –

• See page 31 for IC Block Diagrams.

SEE ADDITIONAL INFORMATION

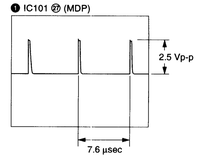


Note on Schematic Diagram:

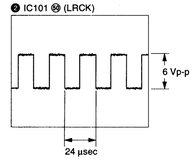
- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

• Waveforms

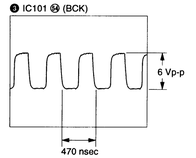
❶ IC101 ㉗ (MDP)



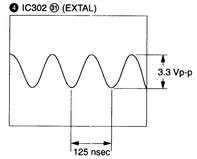
❷ IC101 ㉘ (LRCK)



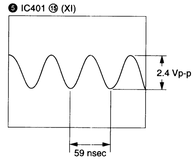
❸ IC101 ㉙ (BCK)



❹ IC302 ㉑ (EXTAL)



❺ IC401 ⑭ (XI)



4-5. PRINTED WIRING BOARD – MAIN Section –

• Semiconductor Location

Ref. No.	Location
D201	D-10
D202	D-10
D203	F-11
D204	F-11
D205	F-10
D206	F-10
D207	F-9
D301	H-13
D501	H-12
D502	G-12
D503	G-12
D504	G-12
D505	H-12
IC101	D-15
IC102	C-13
IC201	F-25
IC202	I-13
IC203	E-25
IC204	G-12
IC301	G-11
IC302	H-14
IC303	I-12
IC401	D-13
Q201	E-25
Q202	C-10
Q203	F-11
Q204	H-12
Q205	F-10
Q301	G-15
Q401	E-12
Q402	E-12
Q403	D-11
Q404	D-11

Note on Printed Wiring Board:

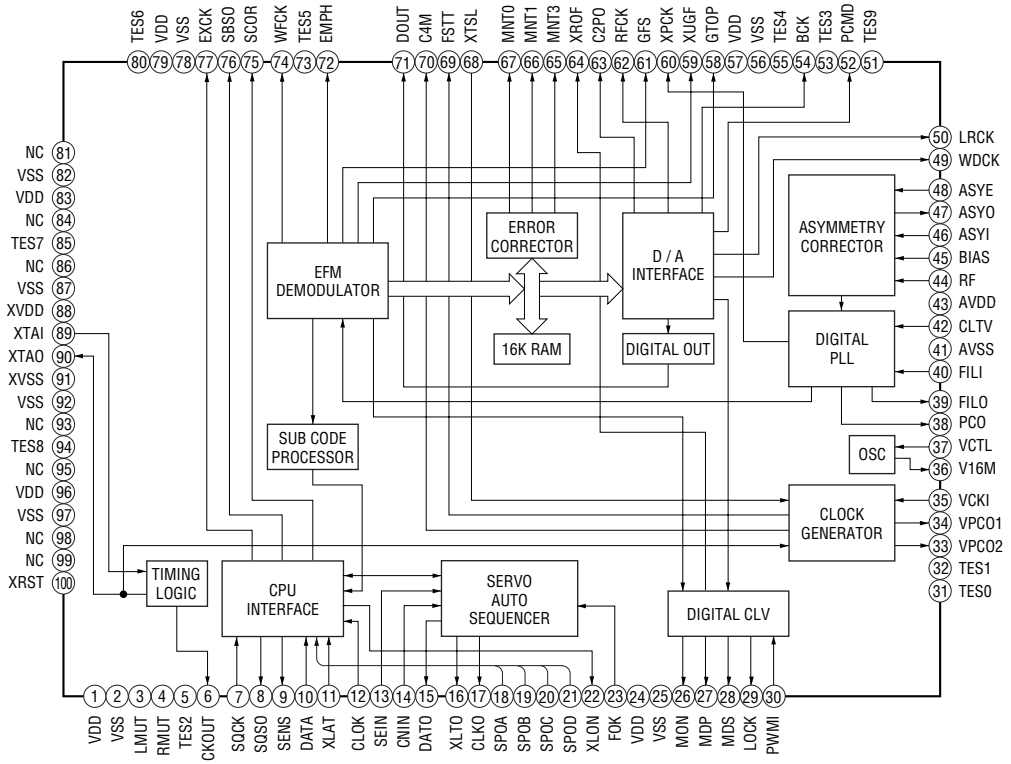
- o—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

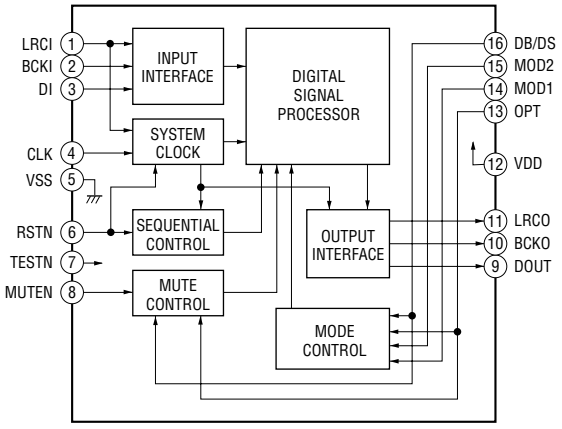
Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

• IC Block Diagrams

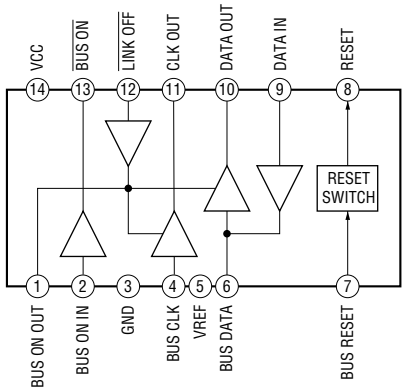
IC101 CXD2530Q


TES6 VDD VSS EXCK SBSO SCOR WFCK TES5 EMPH DOUT C4M FSTT XTSL MNT0 MNT1 MNT3 XROF C2PO RFCK GFS XPCK XUGF GTOP VDD VSS TES4 BCK TES3 PCMD TES9
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51
NC 81
VSS 82
VDD 83
NC 84
TES7 85
NC 86
VSS 87
XVDD 88
XTAI 89
XTAO 90
XVSS 91
VSS 92
NC 93
TES8 94
NC 95
VDD 96
VSS 97
NC 98
NC 99
XRST 100
50 LRCK
49 WDCK
48 ASYE
47 ASYO
46 ASYI
45 BIAS
44 RF
43 AVDD
42 CLTV
41 AVSS
40 FILI
39 FILO
38 PCO
37 VCTL
36 V16M
35 VCKI
34 VPCO1
33 VPCO2
32 TES1
31 TES0
EFM DEMODULATOR
ERROR CORRECTOR
16K RAM
D / A INTERFACE
DIGITAL OUT
ASYMMETRY CORRECTOR
DIGITAL PLL
OSC
CLOCK GENERATOR
SUB CODE PROCESSOR
TIMING LOGIC
CPU INTERFACE
SERVO AUTO SEQUENCER
DIGITAL CLV
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
VDD VSS LMUT RMUT TES2 CKOUT SQCK SQSO SENS DATA XLAT CLOK SEIN CNIN DATO XLTO CLKO SPOA SPOB SPOC SPOD XLON FOK VDD VSS MON MDP MDS LOCK PWMI

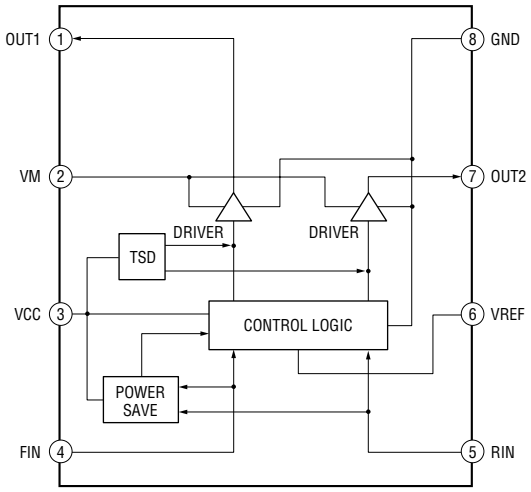
IC102 SM5852ES-E2



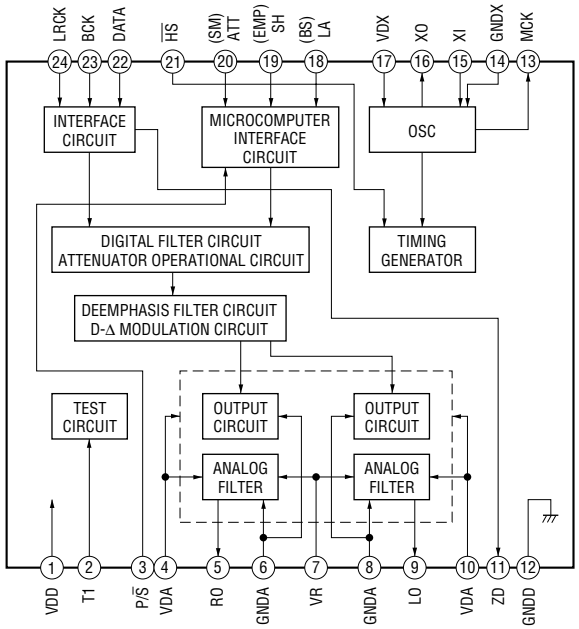
IC204 BA8272F-E2



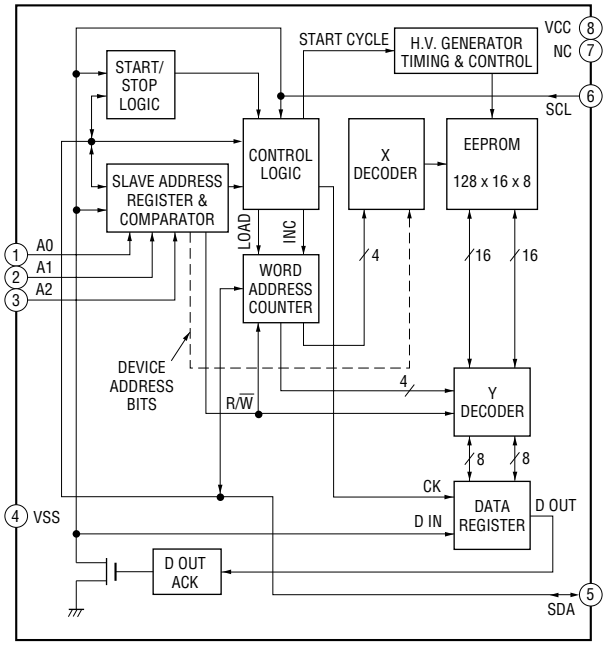
IC301 BA6287F



IC401 TC9404FN-EL



IC303 NM24C16EM8X



4-6. IC PIN FUNCTION DESCRIPTION

MAIN BOARD IC302 CXP84124-066Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	$\overline{\text{LIM.SW}}$	I	Input of limit switch
2	BUSON	I	Input of Bus on control signal from SONY bus interface (IC204) "H": Bus on
3	EJECT	I	Input of EJECT key (SW303) "H": Eject on
4	$\overline{\text{LOAD 1}}$	I	Input of LOAD OUT switch
5	$\overline{\text{LOAD 2}}$	I	Input of LOAD IN switch
6	A.MUTE	O	Output of audio output mute on/off control signal "H": Mute on
7	EMPH	O	Output of emphasis mode for disc playing "L": on
8	CH.R	O	Output of control signal to the chucking motor drive (IC52)
9	CH.F	O	
10	—	—	Not used
11	ELV.R	O	Output of control signal to elevator motor drive (IC301)
12	ELV.ON	O	Output of mechanical deck power supply control signal "H": on
13	CD RST	O	Servo system resetting
14	CD ON	O	Output of servo power supply control signal "H": on
15	GBON	—	Not used
16	EEON	—	Not used
17-23	—	—	Not used
24	TEST1	I	Automatic adjustment selection "L": Automatic adjustment "H": Manual adjustment (Solder across the BP302 terminal)
25-29	—	—	Not used
30	$\overline{\text{RESET}}$	I	Input of system reset signal "L": Reset
31	EXTAL	I	Input of system clock (8 MHz)
32	XTAL	O	Output of system clock (8 MHz)
33	VSS	—	Ground pin
34	TX	—	Not used
35	TEX	I	Connected to ground
36	AVSS	—	Ground pin of A/D converter
37	AVREF	I	Input of A/D converter reference voltage
38	ATRIBT	I	Selection of custom file, D-BASS, etc.
39	MCK	I	Input of signal for fine adjustment of elevator position
40	EHS	I	Input of elevator position (RV302)
41	HTMP	—	Not used
42	—	—	Not used
43	MODE1	O	Output of D-BASS control signal
44	MODE2	O	Output of D-BASS control signal
45	MODE3	O	Output of D-BASS control signal Not used
46, 47	—	—	Not used
48	SCK	O	Output of serial clock signal from SONY bus interface (IC204)
49	SI	I	Input of serial data signal from SONY bus interface (IC204)
50	SO	O	Output of serial data signal to SONY bus interface (IC204)

	FWD	REV	Brake
CH.R	L	H	H
CH.F	H	L	H

Forward : Load chucking
Reverse : Save

Pin No.	Pin Name	I/O	Function
51	SQCLK	O	Output of clock signal to CXD2530Q (IC101)
52	SUBQ	I	Input of subcode Q data signal from CXD2530Q (IC101)
53	—	—	Not used
54	—	—	Connected to the power supply
55	MGLK	I	Input of magazine eject completion detect switch (SW301) "L": Eject completed
56	SCOR	I	Input of subcode sync detect signal from CXD2530Q (IC101)
57	SENS2	I	Input of sense signal from CXA1992AR (IC11)
58	PWM	O	Output of PWM for control to elevator motor drive (IC301)
59	—	—	Not used
60	$\overline{\text{MAG.SW}}$	I	Input of magazine detection switch (SW302) "L": Magazine detected
61	BUCHECK	I	Input of backup detection detection "H": Backup on
62	W.UP	I	Input of Bus on or EJECT key
63	C.OUT	I	Input of track counting signal
64	EEDATA	I/O	Input/output of data signal to E^2PROM (IC303)
65	EECLK	O	Output of clock signal to E^2PROM (IC303)
66	EEINIT	I	Input of initialize signal from E^2PROM (IC303) fixed at "L"
67	—	—	Not used
68	$\overline{\text{SINGLE}}$	I	Selection of single mode "L": Single CD playing
69	FOK	I	Input of focus OK signal from CXA1992AR (IC11) and CXD2530Q (IC101)
70	GFS	I	Input of guard frame sync signal from CXD2530Q (IC101)
71	SENS1	I	Input of sense signal from CXD2530Q (IC101)
72	VDD	—	Power supply
73	—	—	Connected to the power supply
74	CD CLK	O	Output of serial data transfer clock signal to CXD2530Q (IC101)
75	CD XLT	O	Output of latch signal to CXD2530Q (IC101)
76	CD DATA	O	Output of serial data signal to CXD2530Q (IC101)
77-80	—	—	Not used

SECTION 5
EXPLODED VIEWS

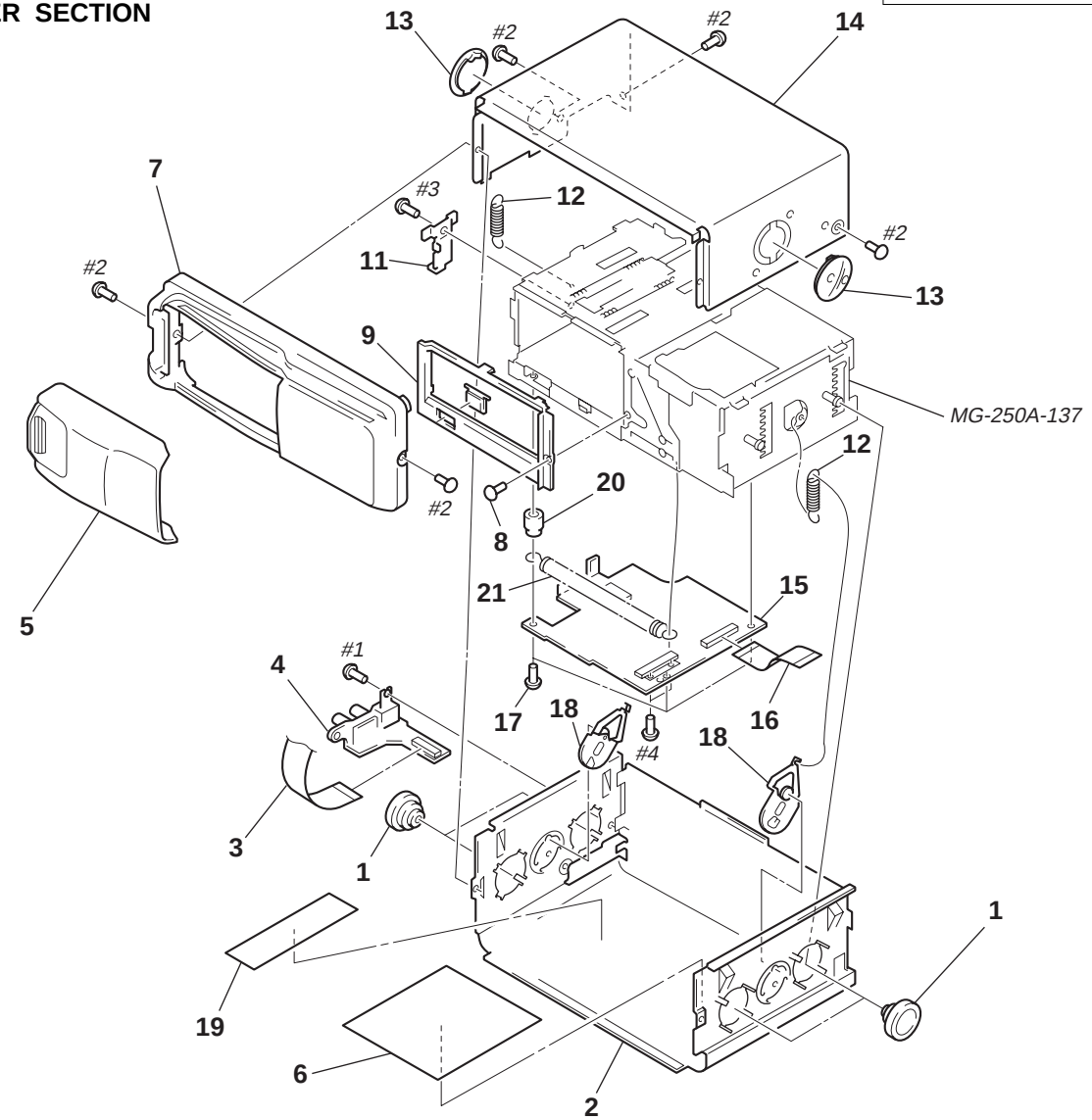
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

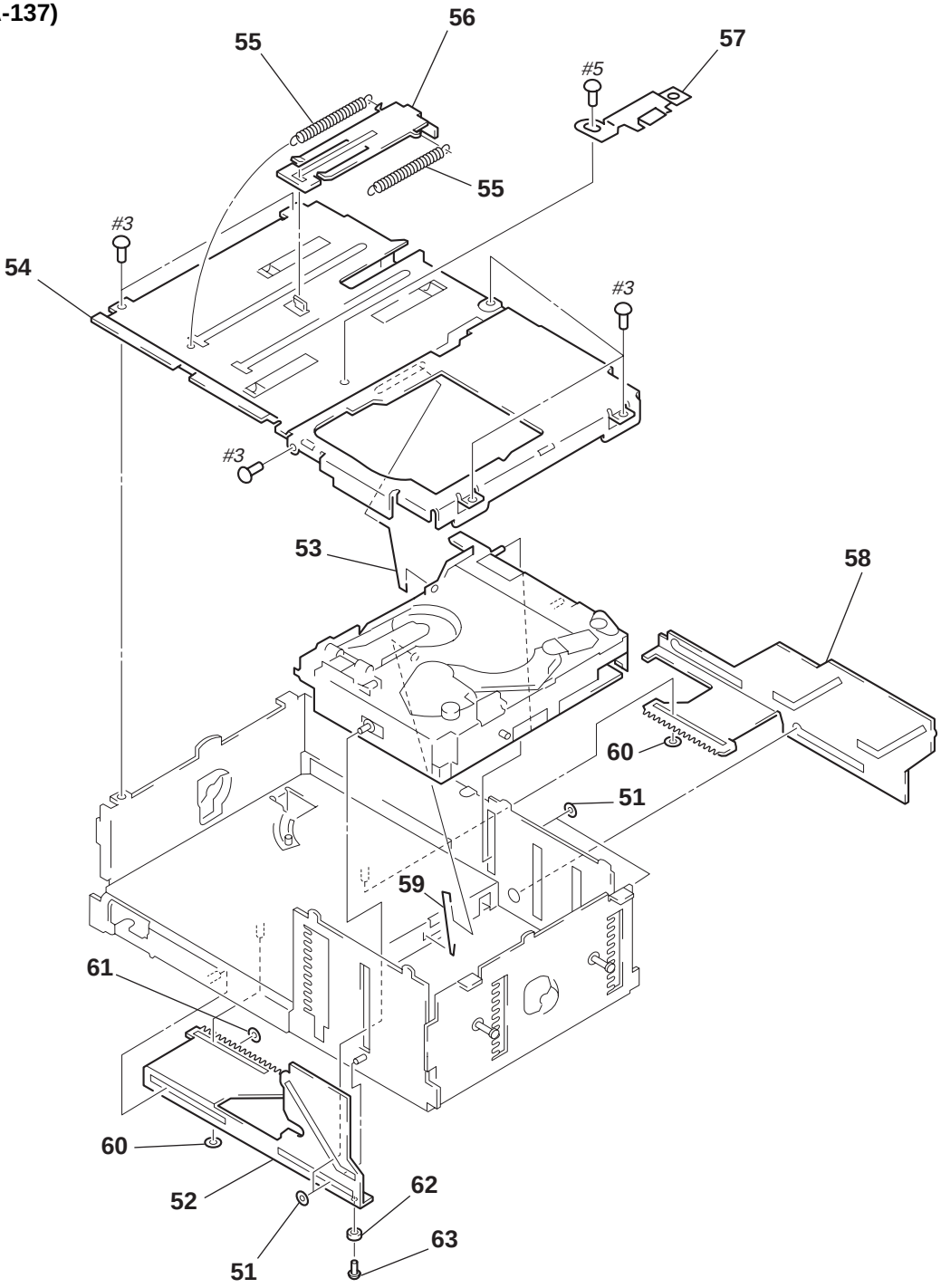
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

(1) COVER SECTION



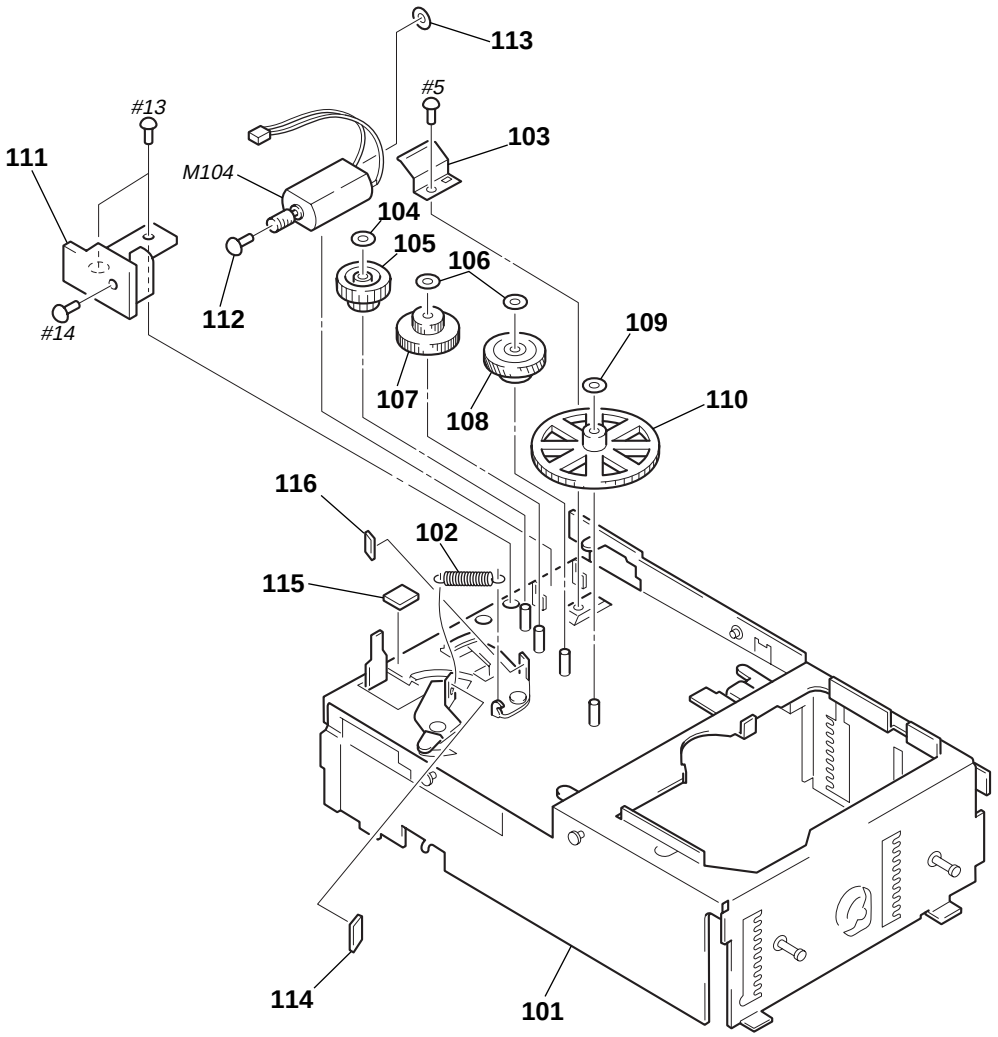
Ref. No.	Part No.	Description	Remark
1	3-010-104-01	DAMPER (250)	
* 2	3-010-097-01	COVER (LOWER) (GOLD) (CDX-705)	
* 2	3-010-097-21	COVER (LOWER) (BLACK) (EXCD-3)	
3	1-664-628-11	JACK FLEXIBLE BOARD	
* 4	1-664-631-11	JACK BOARD	
5	X-3373-217-1	DOOR ASSY (SILVER) (CDX-705)	
5	X-3373-488-1	DOOR ASSY (BLACK) (EXCD-3)	
* 6	3-012-790-01	SHEET (F), PROTECTION	
7	3-010-098-01	PANEL, FRONT (SILVER) (CDX-705)	
7	3-010-098-31	PANEL, FRONT (BLACK) (EXCD-3)	
8	3-012-388-01	SCREW (M 2X3)	
* 9	3-010-105-01	ESCUTCHEON	
* 10	3-010-106-01	BUTTON (EJ) (⏏)	
* 11	3-010-107-01	HEAT SINK	
12	3-010-103-01	SPRING (FL)	
13	3-010-101-01	LEVER (FL) (GOLD) (CDX-705)	
13	3-010-101-11	LEVER (FL) (BLACK) (EXCD-3)	
* 14	3-010-096-01	COVER (UPPER) (GOLD) (CDX-705)	
* 14	3-010-096-21	COVER (UPPER) (BLACK) (EXCD-3)	
* 15	A-3309-771-A	MAIN BOARD, COMPLETE	
16	1-664-627-11	MAIN FLEXIBLE BOARD	
17	3-913-406-01	SCREW (GROUND)	
18	X-3373-215-1	ARM (FL) ASSY	
* 19	3-013-658-01	SHEET (FJ), PROTECTION	
* 20	3-014-434-01	COLLAR (PRINT)	
21	3-014-390-01	SPRING (PWM), TENSION	

(2) MECHANISM DECK SECTION-1 (MG-250A-137)



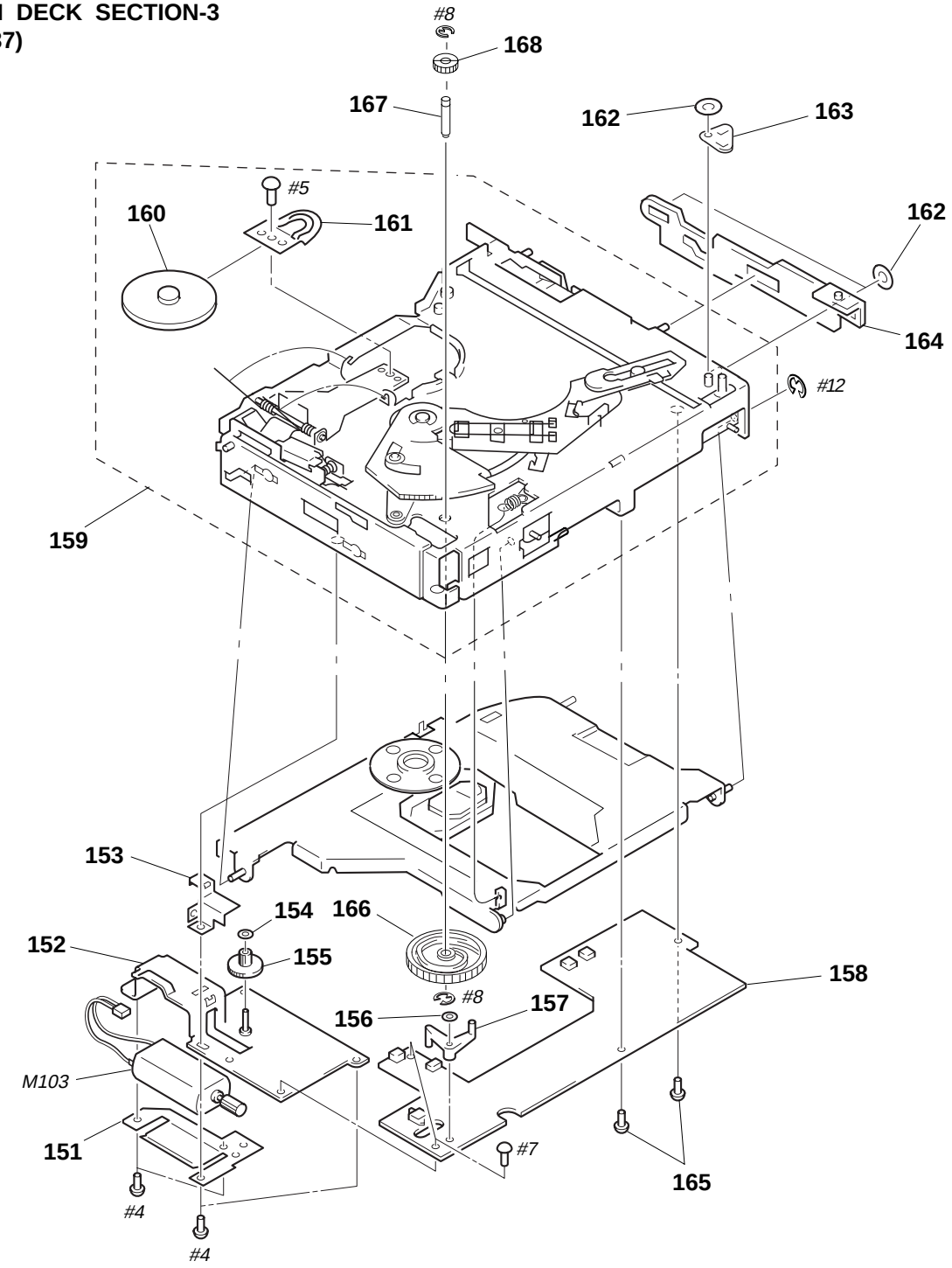
Ref. No.	Part No.	Description	Remark
51	4-965-759-01	WASHER, POLYETHYLENE	
* 52	X-3373-239-1	SLIDER (R) ASSY	
53	3-010-244-01	SPRING (STOPPER. UPPER)	
* 54	X-3373-243-1	CASE (UPPER) ASSY	
55	3-010-217-01	SPRING (EJECT)	
* 56	3-010-162-01	LEVER (EJECT)	
* 57	3-011-998-01	BRACKET (STOPPER UPPER)	
* 58	3-010-240-01	SLIDER (L)	
59	3-011-997-01	SPRING (STOPPER LOWER)	
60	3-578-224-00	WASHER	
61	3-736-073-01	SLIDER, POLYETHYLENE	
62	3-014-433-01	COLLAR (SLIDER)	
63	3-920-362-01	SCREW (ESCUTCHEON)	

(3) MECHANISM DECK SECTION-2 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
* 101	X-3373-223-1	CASE (LOWER) ASSY	
102	3-010-266-01	SPRING (STOP LEVER), TENSION	
* 103	3-010-250-01	BRACKET (ELV MOTOR)	
104	3-736-073-01	SLIDER, POLYETHYLENE	
105	3-010-211-01	GEAR (WORM ELV)	
106	3-336-319-01	RING, RETAINING	
107	3-010-175-01	GEAR (ELV 1)	
108	3-010-239-01	GEAR (ELV 2)	
109	3-362-579-01	RING, RETAINING	
110	3-010-249-01	GEAR (ELV 3)	
* 111	3-016-916-01	BRACKET (WORM RETAINER)	
* 112	3-014-681-01	SHAFT (WORM RETAINER)	
* 113	3-014-685-01	SPACER (MO)	
* 114	3-014-389-01	SPACER (LSW)	
* 115	3-014-683-01	SPACER (PB)	
116	3-015-483-00	SPACER	
M104	A-3301-123-A	ELJ MOTOR ASSY, (ELEVATOR)	

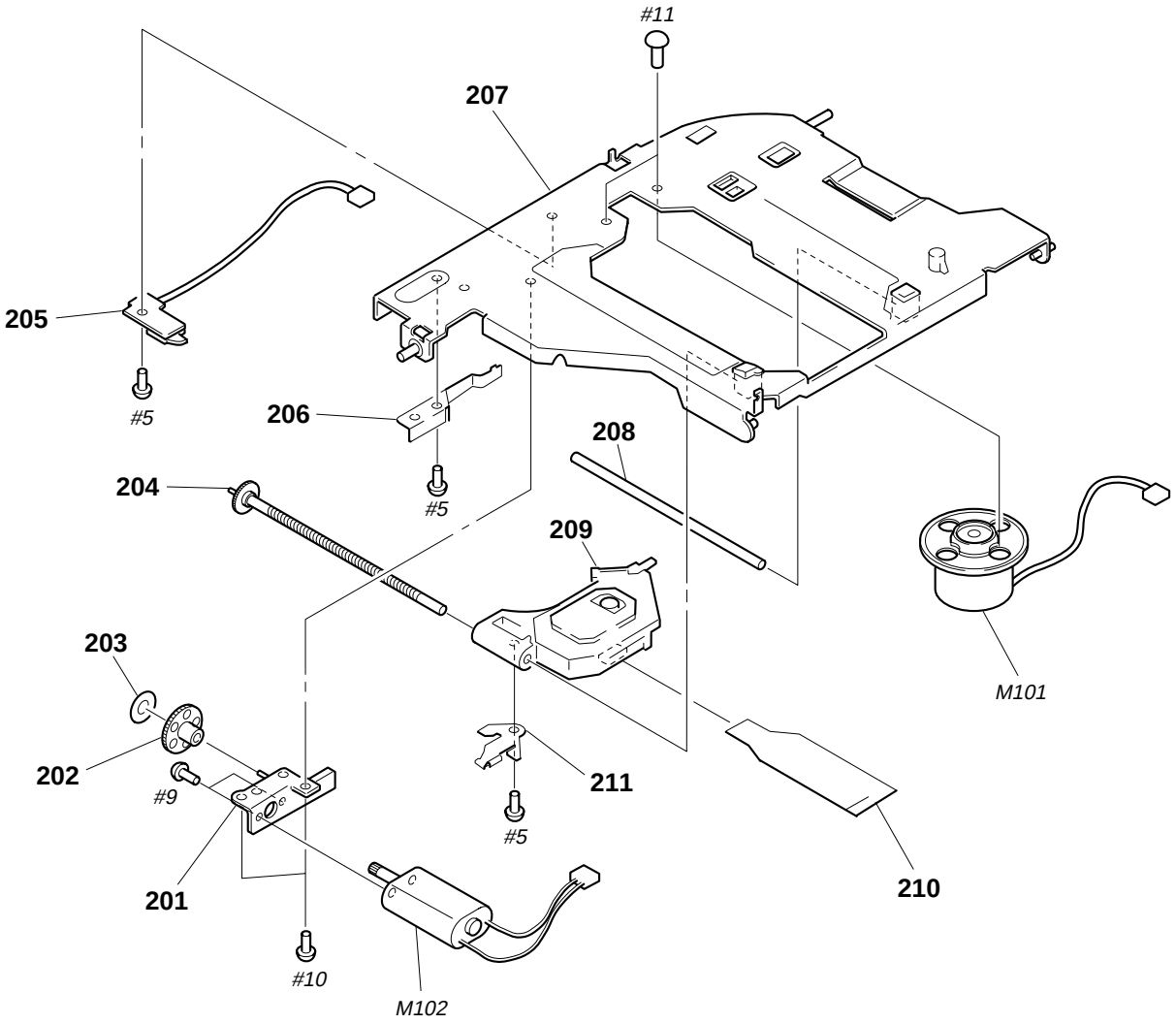
(4) MECHANISM DECK SECTION-3 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
* 151	3-010-269-01	BRACKET (LOAD MOTOR)	
* 152	X-3373-230-1	BASE (WORM) ASSY	
* 153	3-010-270-01	COVER (MOTOR L)	
154	3-321-813-01	WASHER, COTTER POLYETHYLENE	
155	3-010-248-01	GEAR (WORM LOAD 1)	
156	3-573-936-00	STOPPER, REEL	
157	3-010-255-01	ARM (LSW)	
* 158	A-3309-786-A	RF BOARD, COMPLETE	
159	A-3228-939-A	MAIN ASSY, CHASSIS (ELV)	
160	3-010-242-01	RETAINER (DISC)	

Ref. No.	Part No.	Description	Remark
* 161	3-010-243-01	BRACKET (CP)	
162	3-736-073-01	SLIDER, POLYETHYLENE	
163	3-010-251-01	ARM (CONVERSION AB)	
* 164	X-3373-232-1	LEVER (LOCK 3) ASSY	
165	3-918-103-01	SCREW +P2 × 3	
166	X-3373-552-1	GEAR (LOAD 1) ASSY	
167	3-010-254-01	SHAFT (ROTARY PREVENTION C)	
168	3-010-253-01	GEAR (LO MINI)	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	

(5) MECHANISM DECK SECTION-4 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
201	X-3373-229-1	BASE (SLED) ASSY	
202	3-010-258-01	GEAR (SLED MID)	
203	3-573-936-00	STOPPER, REEL	
204	A-3291-958-A	SHAFT (SLED) ASSY	
* 205	1-664-104-11	SW BOARD	
206	3-010-263-01	DETENT (SHAFT THRUST)	
* 207	X-3373-225-1	BASE (OP) ASSY	
208	3-010-261-01	SHAFT (GUIDE S)	
⚠209	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
210	1-664-626-11	OP FLEXIBLE BOARD	
211	3-010-262-01	DETENT (SLED)	
M101	A-3301-067-A	MOTOR (SP) ASSY, D.C. (SPINDLE)	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

JACK **MAIN**

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-664-631-11	JACK BOARD			
		**********			
		< CAPACITOR >			
C901	1-163-009-11	CERAMIC CHIP	0.001uF 10%	50V	
C903	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C904	1-163-009-11	CERAMIC CHIP	0.001uF 10%	50V	
		< CONNECTOR >			
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)			(CDX-705)
CN901	1-779-077-21	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)			(EXCD-3)
CNJ901	1-778-775-21	CONNECTOR, FPC 13P			
		< FERRITE BEAD >			
FB901	1-500-445-21	BEAD, FERRITE (CHIP)			
FB902	1-500-445-21	BEAD, FERRITE (CHIP)			
FB903	1-500-445-21	BEAD, FERRITE (CHIP)			
		< IC LINK >			
IC901	1-532-686-21	LINK, IC (2.7A)			
**********					
*	A-3309-771-A	MAIN BOARD, COMPLETE			
		**********			
*	3-011-852-01	HOLDER (REG)			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C102	1-163-251-11	CERAMIC CHIP	100PF 5%	50V	
C103	1-163-011-11	CERAMIC CHIP	0.0015uF 10%	50V	
C104	1-163-035-00	CERAMIC CHIP	0.047uF	50V	
C105	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C106	1-164-182-11	CERAMIC CHIP	0.0033uF 10%	50V	
C107	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C108	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C109	1-126-513-11	ELECT	47uF 20%	6.3V	
C110	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C111	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C120	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C121	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C122	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C123	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C124	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C125	1-163-009-11	CERAMIC CHIP	0.001uF 10%	50V	
C201	1-124-589-11	ELECT	47uF 20%	16V	
C202	1-126-513-11	ELECT	47uF 20%	6.3V	
C203	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C204	1-115-466-00	ELECT	1000uF 20%	16V	
C205	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C206	1-124-589-11	ELECT	47uF 20%	16V	
C207	1-124-589-11	ELECT	47uF 20%	16V	
C208	1-164-346-11	CERAMIC CHIP	1uF	16V	
C209	1-124-589-11	ELECT	47uF 20%	16V	
C210	1-125-701-11	CAPACITOR	0.047F	5.5V	
C211	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C212	1-164-346-11	CERAMIC CHIP	1uF	16V	
C213	1-164-346-11	CERAMIC CHIP	1uF	16V	
C214	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C302	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C303	1-126-513-11	ELECT	47uF 20%	6.3V	
C304	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C305	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C306	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C307	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C308	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C401	1-124-589-11	ELECT	47uF 20%	16V	
C402	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C403	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C404	1-126-513-11	ELECT	47uF 20%	6.3V	
C405	1-126-513-11	ELECT	47uF 20%	6.3V	
C406	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C407	1-126-157-11	ELECT	10uF 20%	16V	
C408	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C409	1-126-513-11	ELECT	47uF 20%	6.3V	
C410	1-126-157-11	ELECT	10uF 20%	16V	
C411	1-126-157-11	ELECT	10uF 20%	16V	
C412	1-163-009-11	CERAMIC CHIP	0.001uF 10%	50V	

Ref. No.	Part No.	Description	Remark
C413	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C414	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C415	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C501	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C502	1-163-029-11	CERAMIC CHIP 0.0047uF 50V	
C503	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< CONNECTOR >	
CNJ101	1-770-351-11	CONNECTOR, FPC 26P	
CNJ201	1-770-350-21	CONNECTOR, FPC 13P	
CNP301	1-580-055-21	PIN, CONNECTOR 2P	
		< DIODE >	
D201	8-719-210-33	DIODE EC10DS2	
D202	8-719-210-33	DIODE EC10DS2	
D203	8-719-801-78	DIODE 1SS184	
D204	8-719-422-64	DIODE MA8062-M	
D205	8-719-038-48	DIODE 1SS319 (TE85R)	
D206	8-719-801-78	DIODE 1SS184	
D207	8-719-422-62	DIODE MA8062-L-TX	
D301	8-719-801-78	DIODE 1SS184	
D501	8-719-422-62	DIODE MA8062-L-TX	
D502	8-719-975-40	DIODE RB411D	
D503	8-719-975-40	DIODE RB411D	
D504	8-719-422-62	DIODE MA8062-L-TX	
D505	8-719-975-40	DIODE RB411D	
		< FERRITE BEAD >	
FB101	1-500-445-21	BEAD, FERRITE (CHIP)	
FB102	1-500-445-21	BEAD, FERRITE (CHIP)	
FB103	1-500-445-21	BEAD, FERRITE (CHIP)	
FB111	1-500-445-21	BEAD, FERRITE (CHIP)	
FB401	1-500-445-21	BEAD, FERRITE (CHIP)	
FB411	1-500-445-21	BEAD, FERRITE (CHIP)	
FB412	1-500-445-21	BEAD, FERRITE (CHIP)	
FB413	1-500-445-21	BEAD, FERRITE (CHIP)	
		< IC >	
IC101	8-752-384-15	IC CXD2530Q	
IC102	8-759-446-44	IC SM5852ES-E2	
IC201	8-759-054-12	IC PQ09RA1	
IC202	8-759-443-41	IC RH5VL40AA-T1C	
IC203	8-759-324-40	IC KIA7805PI	
IC204	8-759-444-86	IC BA8272F-E2	
IC301	8-759-040-83	IC BA6287F	
IC302	8-752-883-24	IC CXP84124-066Q	
IC303	8-759-363-60	IC NM24C16EM8X	
IC401	8-759-327-78	IC TC9404FN-EL	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q201	8-729-016-83	TRANSISTOR 2SB1446	
Q202	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q204	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q205	8-729-822-05	TRANSISTOR 2SD1622-ST-TD	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q401	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q402	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q403	8-729-015-39	TRANSISTOR DTC323TK	
Q404	8-729-015-39	TRANSISTOR DTC323TK	
		< RESISTOR >	
R101	1-216-119-00	METAL CHIP 820K 5% 1/10W	
R102	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R104	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R105	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R106	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R107	1-500-445-21	BEAD, FERRITE (CHIP)	
R108	1-216-295-00	CONDUCTOR, CHIP (2012)	
R201	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R202	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R203	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R204	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R205	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R206	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R207	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R208	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R301	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R302	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R303	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R304	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R305	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R306	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R307	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R308	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R309	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R310	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R311	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R312	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R313	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R318	1-216-033-00	METAL CHIP 220 5% 1/10W	
R319	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R320	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R321	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R332	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R333	1-216-295-00	CONDUCTOR, CHIP (2012)	

MAIN **RF**

Ref. No.	Part No.	Description				Remark
R334	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R335	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R401	1-216-033-00	METAL CHIP	220	5%	1/10W	
R405	1-216-033-00	METAL CHIP	220	5%	1/10W	
R406	1-216-033-00	METAL CHIP	220	5%	1/10W	
R407	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R408	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R501	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV301	1-223-834-11	RES, ADJ, CARBON 47K				
RV302	1-225-412-11	RES, VAR, SLIDE 10K (ELEVATOR)				
		< SWITCH >				
SW301	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE EJECT END DETECT)				
SW302	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE IN/OUT DETECT)				
SW303	1-571-532-21	SWITCH, TACTIL (⏏)				
		< VIBRATOR >				
X301	1-767-261-21	VIBRATOR, CERAMIC (8MHz)				
X401	1-767-511-21	VIBRATOR, CERAMIC (16.930MHz)				
**********						
*	A-3309-786-A	RF BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C12	1-113-500-11	TANTAL. CHIP	100uF	20%	10V	
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C14	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C15	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	
C16	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C17	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C18	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V	
C19	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C23	1-113-682-11	TANTAL. CHIP	33uF	20%	10V	
C24	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C25	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C28	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
C29	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C31	1-113-987-11	TANTAL. CHIP	4.7uF	20%	25V	
C32	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C33	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C35	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C37	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C38	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	
C39	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C40	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C43	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V	
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C57	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C58	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C60	1-104-914-11	TANTAL. CHIP	22uF	20%	16V	
		< CONNECTOR >				
CNJ11	1-778-776-21	CONNECTOR, FPC 17P				
CNJ12	1-778-777-21	CONNECTOR, FPC 26P				
CNP11	1-580-055-21	PIN, CONNECTOR 2P				
CNP51	1-580-055-21	PIN, CONNECTOR 2P				
CNP52	1-580-055-21	PIN, CONNECTOR 2P				
CNP53	1-580-055-21	PIN, CONNECTOR 2P				
		< IC >				
IC11	8-752-080-62	IC CXA1992AR				
IC51	8-759-071-79	IC BA6297AFP				
IC52	8-759-040-83	IC BA6287F				
		< TRANSISTOR >				
Q11	8-729-141-48	TRANSISTOR 2SB624-BV345				
		< RESISTOR >				
R11	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R12	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R13	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R14	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R16	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R17	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R18	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R22	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R25	1-216-851-11	METAL CHIP	330K	5%	1/16W	

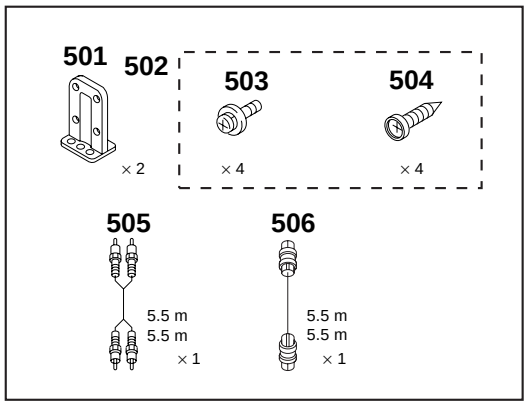
Ref. No.	Part No.	Description			Remark
R26	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R27	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R28	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R30	1-216-829-11	METAL CHIP	4.7K	5% 1/16W	
R31	1-216-829-11	METAL CHIP	4.7K	5% 1/16W	
R32	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R33	1-216-158-00	METAL GLAZE	22	5% 1/8W	
R34	1-216-855-11	METAL CHIP	680K	5% 1/16W	
R35	1-216-835-11	METAL CHIP	15K	5% 1/16W	
R36	1-216-836-11	METAL CHIP	18K	5% 1/16W	
R37	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R38	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R39	1-216-847-11	METAL CHIP	150K	5% 1/16W	
R40	1-218-273-11	METAL GLAZE	510K	5% 1/16W	
R41	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R42	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R43	1-216-849-11	METAL CHIP	220K	5% 1/16W	
R44	1-216-846-11	METAL CHIP	120K	5% 1/16W	
R45	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R46	1-216-847-11	METAL CHIP	150K	5% 1/16W	
R47	1-216-834-11	METAL CHIP	12K	5% 1/16W	
R48	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R49	1-216-101-00	METAL CHIP	150K	5% 1/10W	
R50	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R51	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R52	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R53	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R54	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R55	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R56	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R57	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R58	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R59	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R60	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R61	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R62	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R63	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R64	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R65	1-216-073-00	METAL CHIP	10K	5% 1/10W	
		< VARIABLE RESISTOR >			
RV14	1-225-206-11	RES, ADJ, CERMET 22K			
		< SWITCH >			
SW11	1-762-946-11	SWITCH, PUSH (LOAD IN)			
SW12	1-762-946-11	SWITCH, PUSH (LOAD OUT)			

Ref. No.	Part No.	Description	Remark
*	1-664-104-11	SW BOARD	
		*********	
		< SWITCH >	
SW1	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)	
		MISCELLANEOUS	
		**********	
3	1-664-628-11	JACK FLEXIBLE BOARD	
16	1-664-627-11	MAIN FLEXIBLE BOARD	
⚠209	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
210	1-664-626-11	OP FLEXIBLE BOARD	
M101	A-3301-067-A	MOTOR (SP) ASSY, D.C. (SPINDLE)	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	
M104	A-3301-123-A	ELJ MOTOR ASSY, (ELEVATOR)	
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-861-01	SCREW +BVTT 2.6X5 (S)	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#3	7-621-772-08	SCREW +B 2X3	
#4	7-627-553-27	SCREW, PRECISION +P 2X2.5	
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#7	7-628-253-05	+PS 2X4	
#8	7-624-102-04	STOP RING 1.5, TYPE-E	
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3	
#10	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#11	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE 3	
#12	7-624-104-04	STOP RING 2.0 (E TYPE)	
#13	7-627-553-18	SCREW, PRECION +P 2X2	
#14	7-621-255-45	SCREW +P 2X6	
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-859-228-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (CDX-705: US, Canadian, E)	
	3-859-228-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (CDX-705: AEP, UK)	
	3-859-228-31	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN) (CDX-705: AEP, UK, German)	
	3-859-392-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (EXCD-3)	
	X-3373-241-1	MAGAZINE ASSY	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**************************************	
501	3-011-778-01	BRACKET (705) (CDX-705)	
501	3-011-778-11	BRACKET (705) (EXCD-3)	
* 502	X-3369-824-1	SCREW ASSY	
503	7-682-962-01	SCREW +PSW 4X10	
504	Not Supplied		
505	1-590-874-11	CORD, CONNECTION (RCA PIN CORD 5.5m)	
506	1-590-519-21	CORD (WITH CONNECTOR) (BUS CABLE 5.5m)	



CDX-705/EXCD-3

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-705/EXCD-3
AEP Model
UK Model
E Model
CDX-705

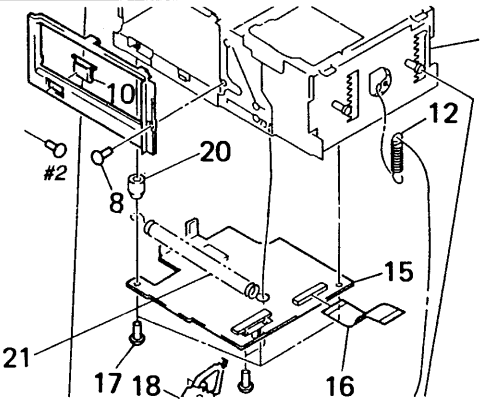
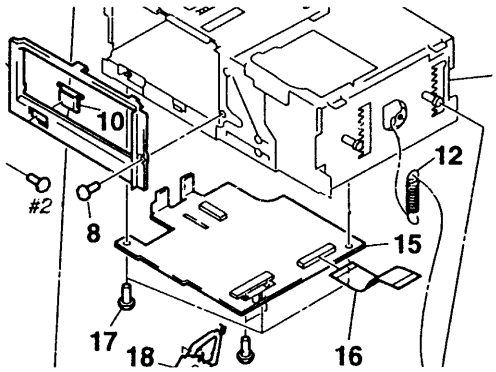
SUPPLEMENT-1

File this supplement with the service manual.

Subject: Main board IC302 Modification

(ECN-CS710015)

IC302 was been changed from CXP84124-066Q to CXP84124-069Q in the midst of production. At the same time, collar (print) and tension spring (PWM) were been deleted.

Page	Former			New		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
41	IC302	8-752-883-24	IC CXP84124-066Q	IC302	8-752-885-12	IC CXP84124-069Q
(1)						
	* 20	3-014-434-01	COLLAR (PRINT)	——— deleted ———		
	21	3-014-390-01	SPRING (PWM), TENSION	——— deleted ———		

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Pages marked "( )" are indicated SERVICE MANUAL CORRECTION-1.

MEMO

CDX-705/EXCD-3

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-705/EXCD-3
AEP Model
UK Model
E Model
CDX-705

SUPPLEMENT-2

File this supplement with the service manual.

Subject:
1. Installation
2. Mechanical Adjustments
3. Board Modification

(ECN-CS701551)

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2. Mechanical Adjustments 6

3. Board Modification

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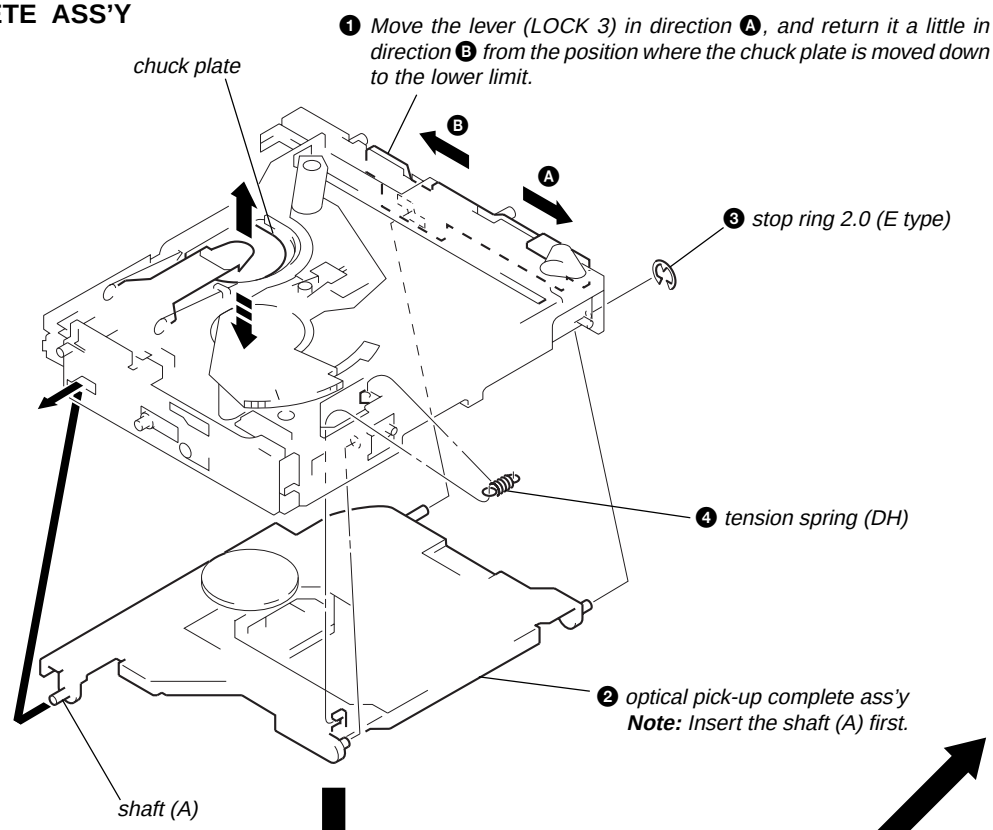
3-3. Schematic Diagram –MAIN Section– 13
3-4. Printed Wiring Boards –RF Section– 17
3-5. Schematic Diagram –RF Section– 19
3-6. Electrical Parts List 21

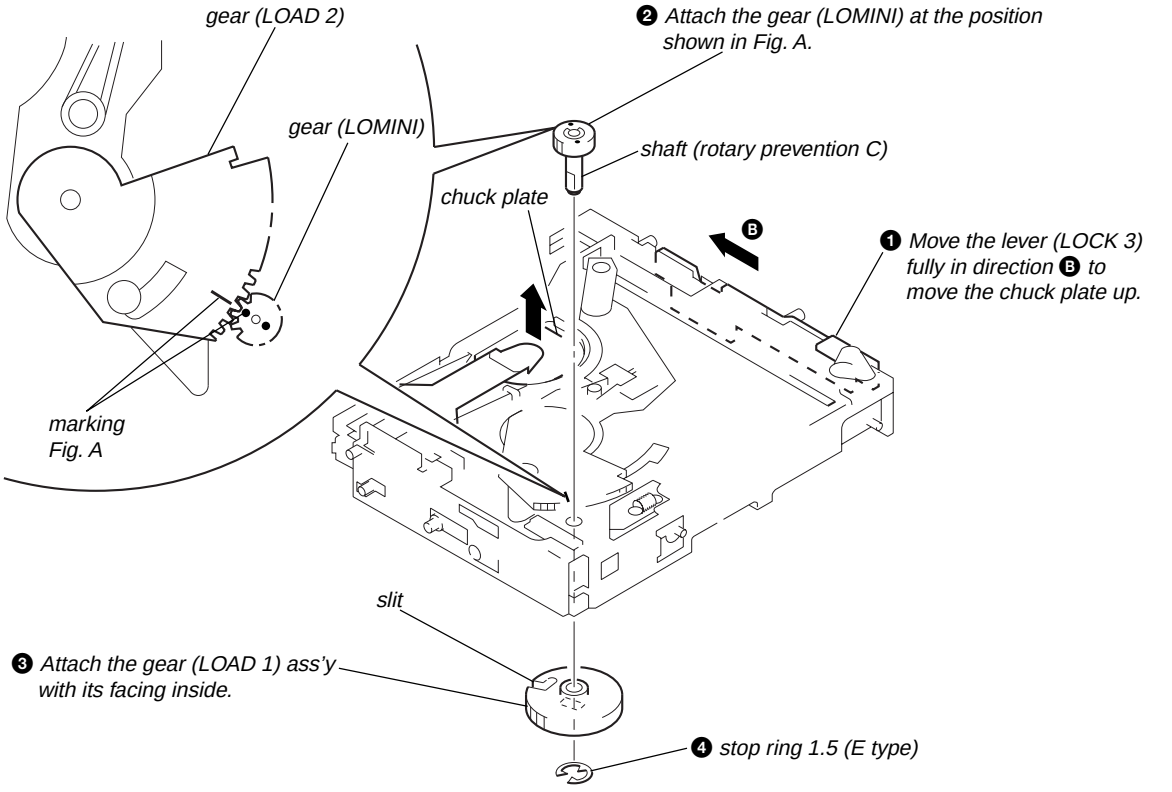
1. INSTALLATION

Note: Follow the assembly procedure in the numerical order given.

OPTICAL PICK-UP COMPLETE ASS'Y

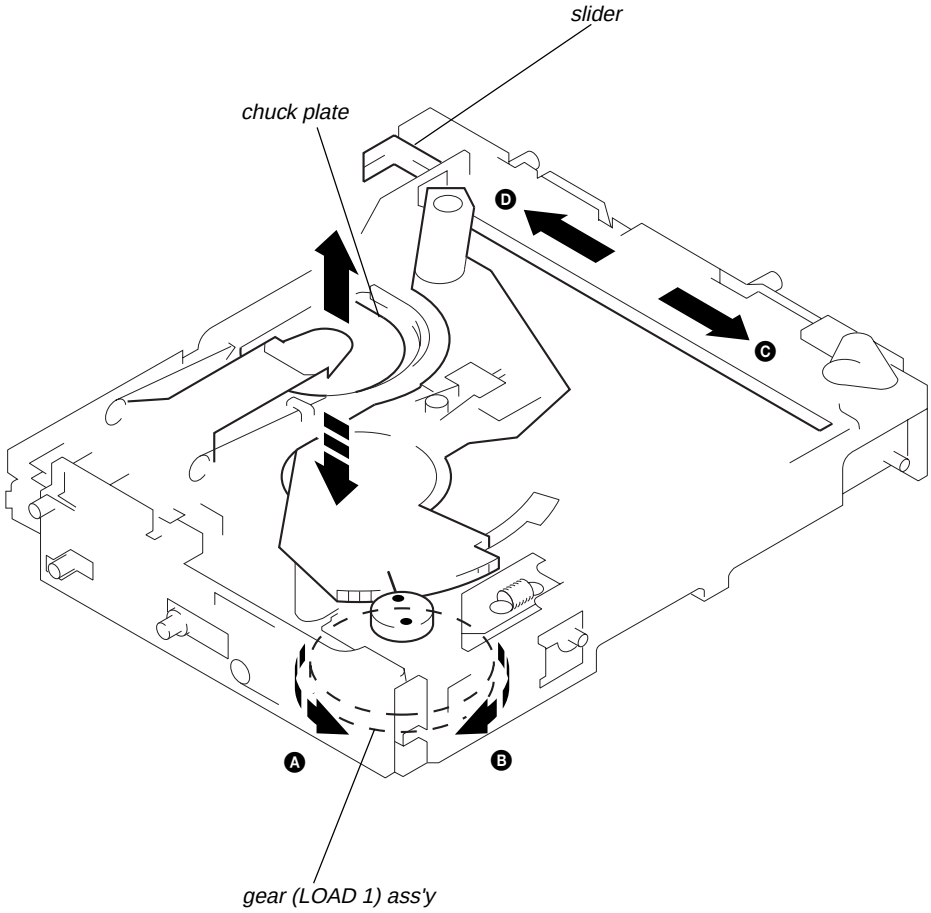

❶ Move the lever (LOCK 3) in direction Ⓐ, and return it a little in direction Ⓑ from the position where the chuck plate is moved down to the lower limit.
chuck plate
Ⓑ
Ⓐ
❸ stop ring 2.0 (E type)
❹ tension spring (DH)
❷ optical pick-up complete ass'y
Note: Insert the shaft (A) first.
shaft (A)

GEAR (LOMINI) / (LOAD 1) ASS'Y

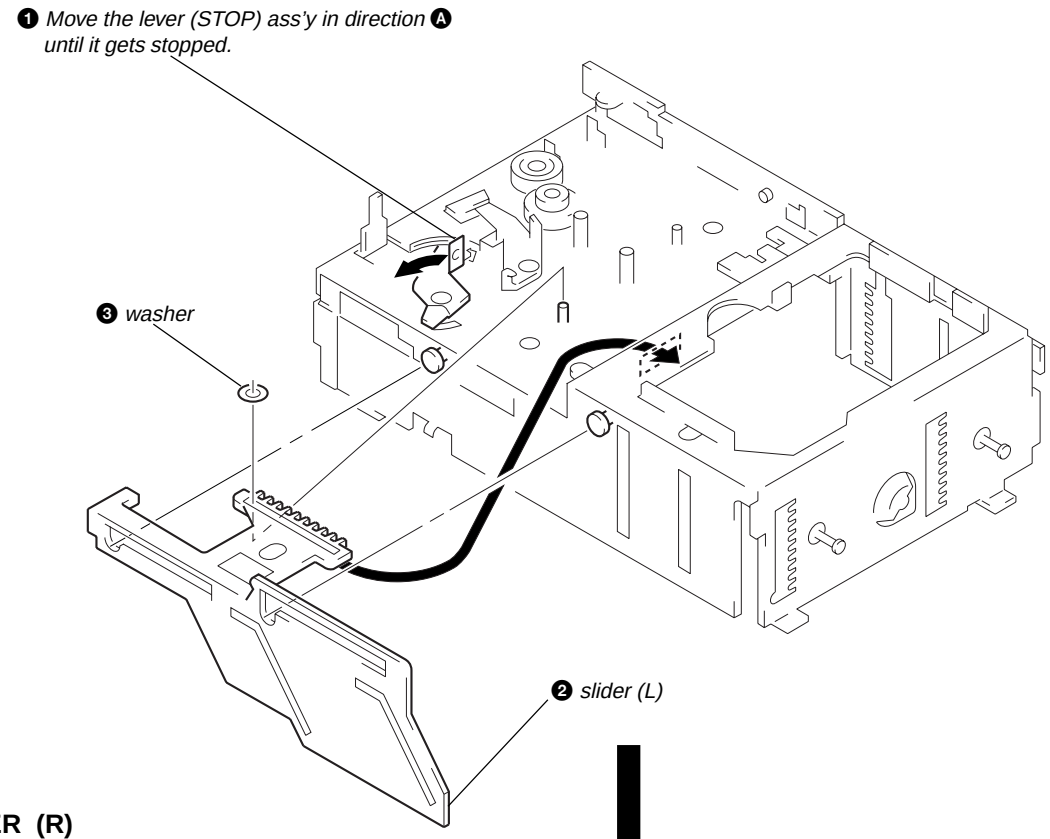

gear (LOAD 2)
❷ Attach the gear (LOMINI) at the position shown in Fig. A.
gear (LOMINI)
shaft (rotary prevention C)
chuck plate
Ⓑ
❶ Move the lever (LOCK 3) fully in direction Ⓑ to move the chuck plate up.
marking
Fig. A
slit
❸ Attach the gear (LOAD 1) ass'y with its facing inside.
❹ stop ring 1.5 (E type)

OPERATION CHECK

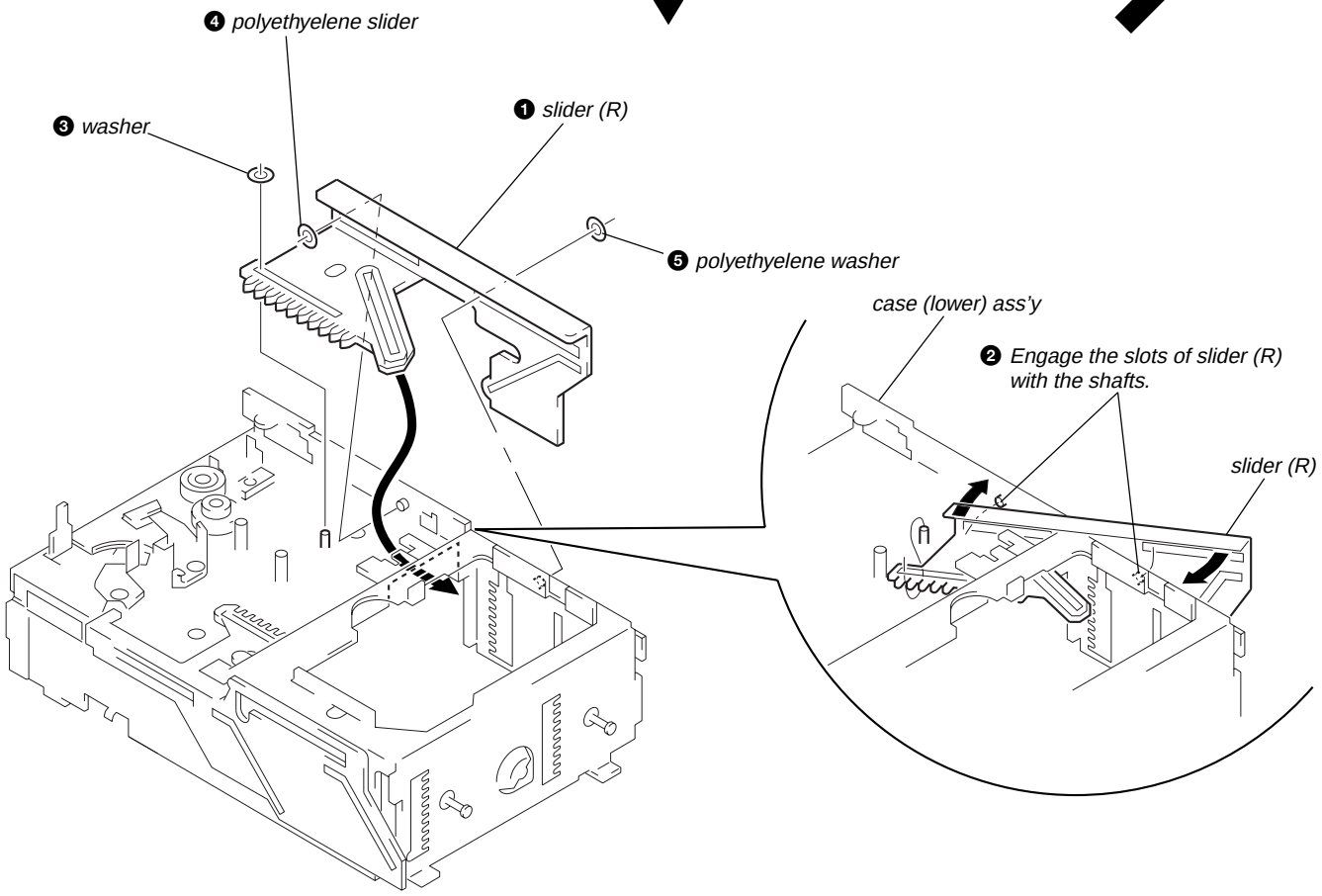
❶ *Confirm that the slider moves in direction* Ⓒ *to move down the chuck plate if the gear (LOAD 1) is rotated in direction* Ⓐ *or the chuck plate moves up and the slider moves in direction* Ⓓ *if the gear is rotated in direction* Ⓑ*.*



SLIDER (L)

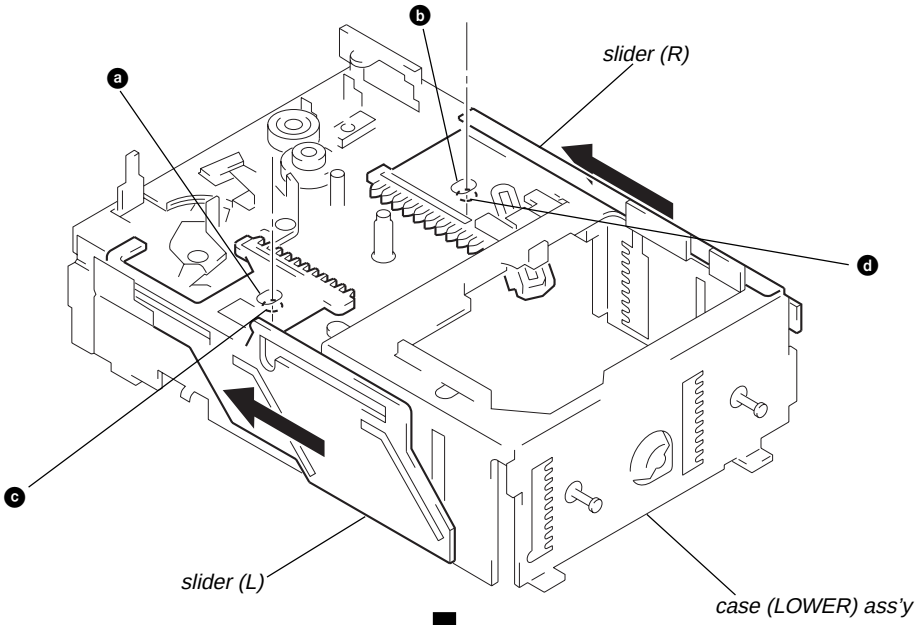


SLIDER (R)

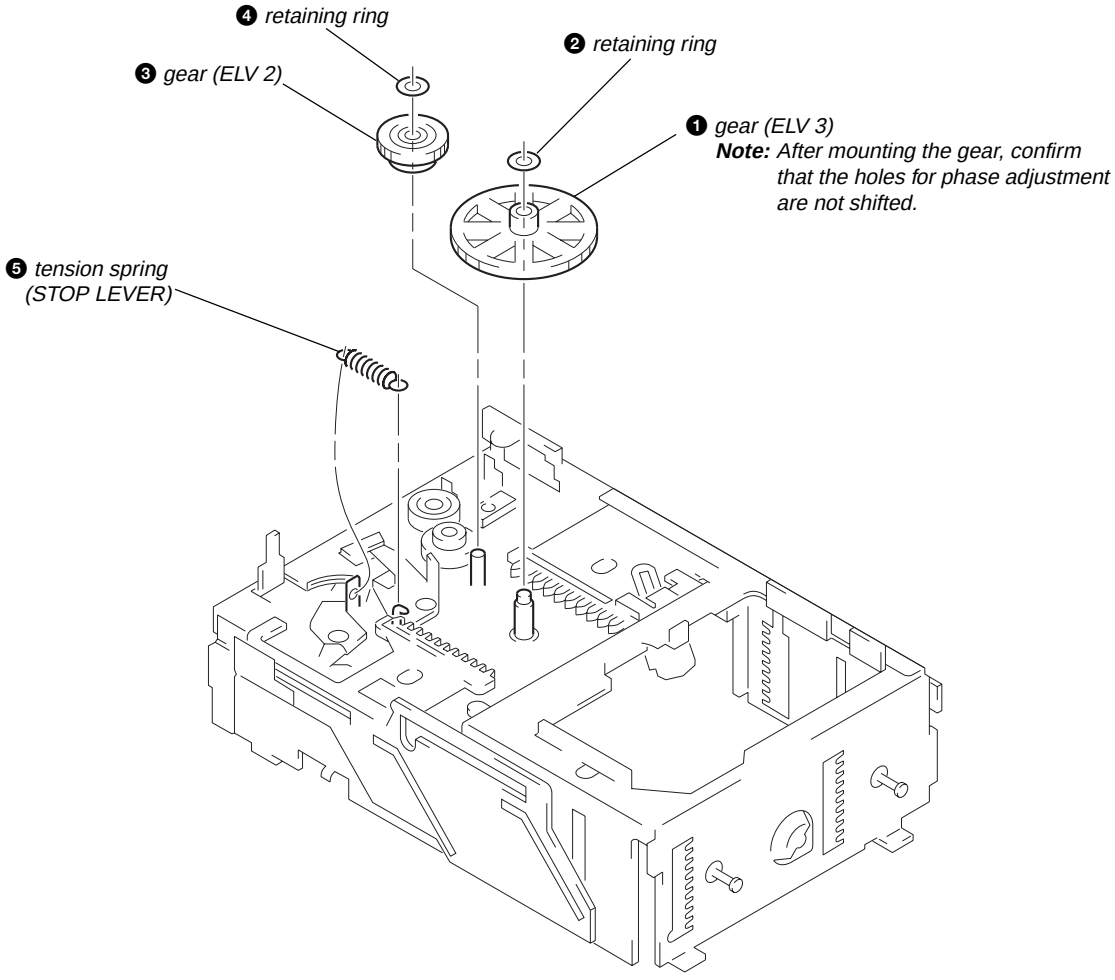


ADJUSTING PHASE OF SLIDERS (L, R)

❶ *Sliding the sliders (L, R) in the arrow direction, meet holes* ⓐ *and* ⓑ *of the sliders (L, R) with holes* ⓒ *and* ⓓ *of the case (LOWER) ass'y.*



GEAR (ELV2) / (ELV3)

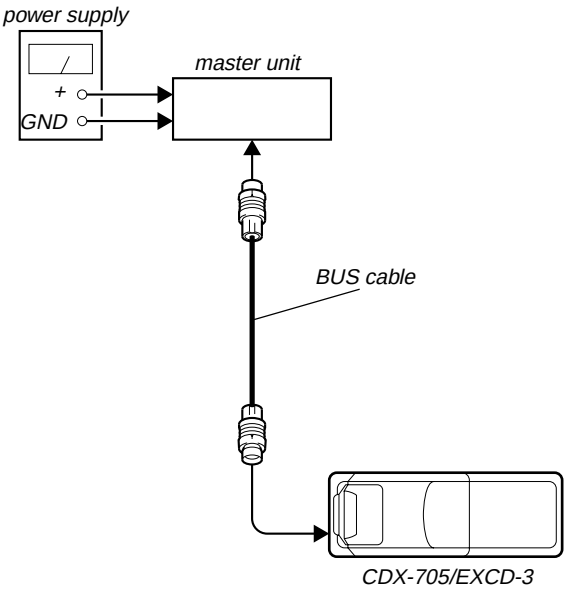

❹ retaining ring
❷ retaining ring
❸ gear (ELV 2)
❶ gear (ELV 3)
Note: After mounting the gear, confirm that the holes for phase adjustment are not shifted.
❺ tension spring (STOP LEVER)

2. MECHANICAL ADJUSTMENTS

Elevator Height (Address) Adjustment

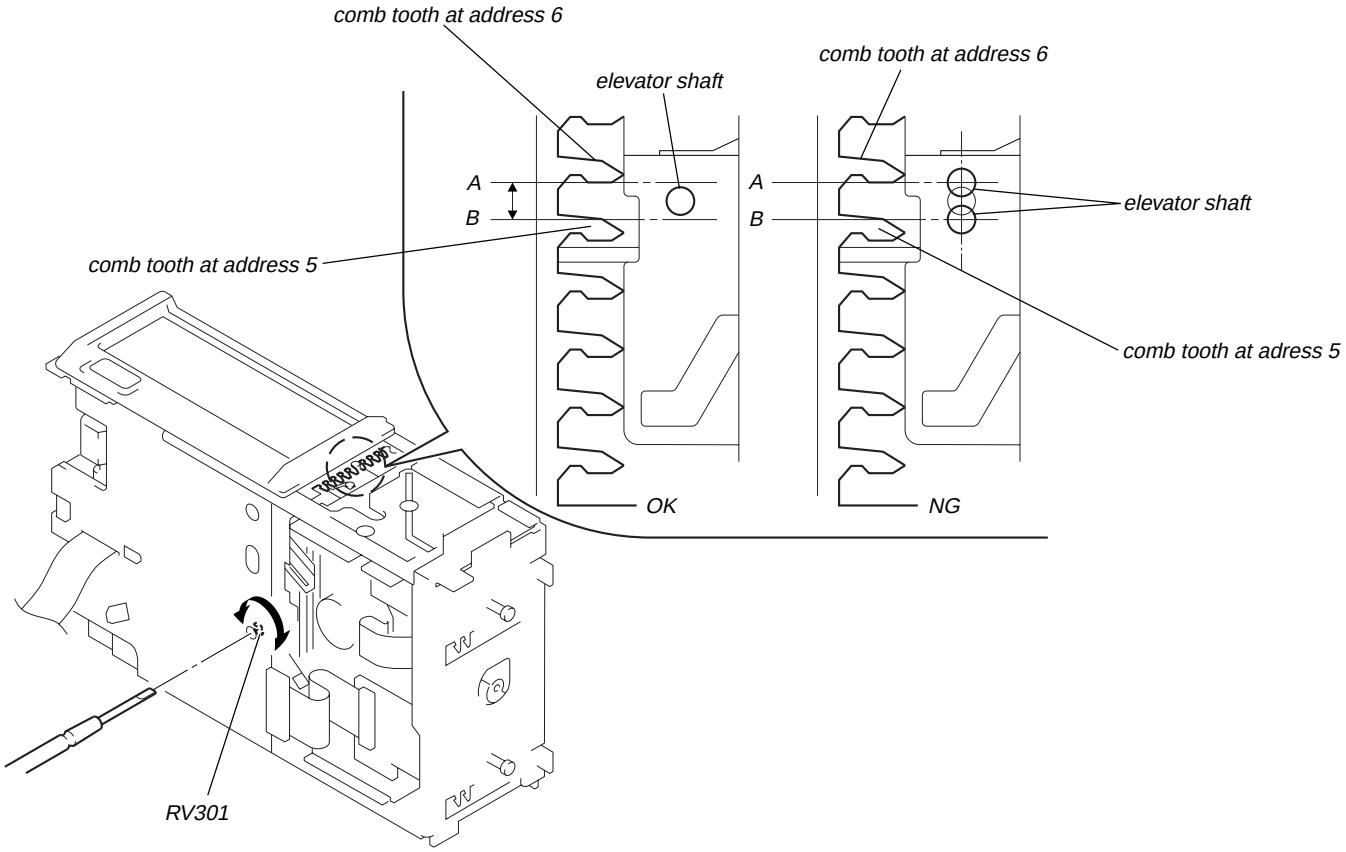
Note: This adjustments is necessary when the system controller (IC301), variable resistor (RV301), slider (R), slider (L), or chassis (ELV) was replaced for any repair.

Connection:



Adjustment Method:

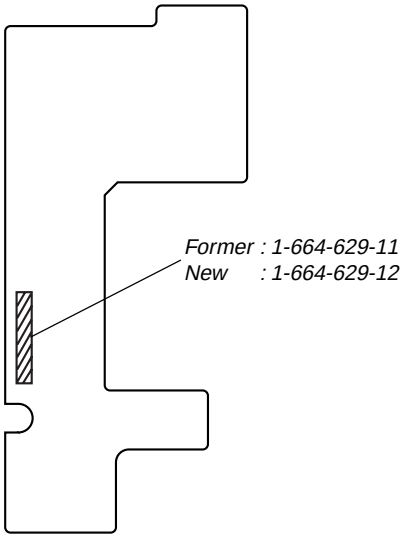
1. Connect this set to the master unit (e.g. MDX-C670/C670RDS), load a disc magazine, and place the set vertically as shown below.
2. Connect the regulated power supply to the master unit, and turn the power on.
3. Press the DISC button on the master unit and select DISC 5.
4. At this time, if the elevator shaft does not position between comb teeth A and B at addresses 5 and 6 as shown below, adjust the following.
5. Press repeatedly the DISC + and – buttons on the master unit so that the elevator shafts moves from address 6 to address 5, or from 5 to 6. At this time, adjust RV301 on the main board so that the elevator shaft positions smoothly between comb teeth A and B.
6. Further, place the set horizontally and make same adjustment as mentioned above.
7. After adjustment at addresses 5 to 6 is finished, check all operations from addresses 1 to 10 with the set placed vertically and horizontally respectively to confirm that the elevator shaft positions in a range between comb teeth A to B.



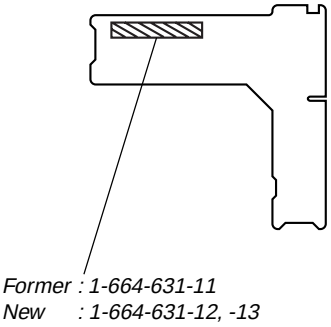
3. BOARD MODIFICATION

3-1. NEW/FORMER DISCRIMINATION

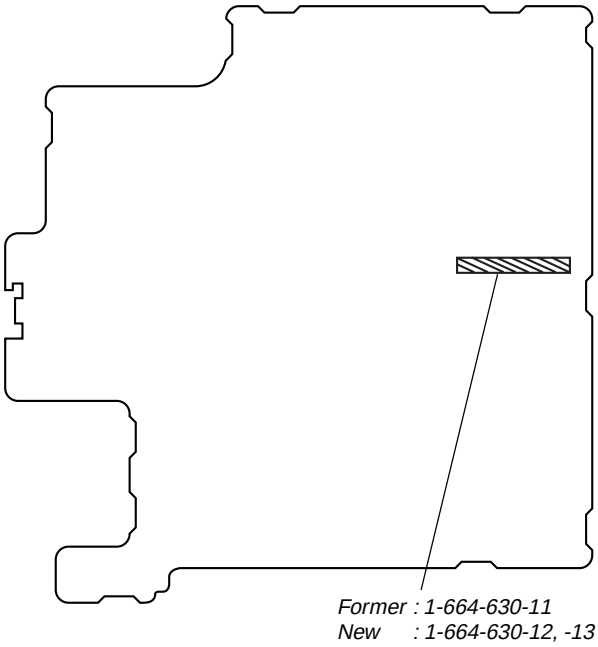
[RF BOARD] – Conductor Side –



[JACK BOARD] – Conductor Side –



[MAIN BOARD] – Component Side –



MEMO

3-2. PRINTED WIRING BOARDS – MAIN Section –

• Semiconductor Location

Ref. No.	Location
D201	D-10
D202	D-10
D203	F-11
D204	F-11
D205	F-10
D206	F-10
D207	F-9
D301	H-13
D311	G-11
D501	H-12
D502	G-12
D503	G-12
D504	G-12
D505	H-12
IC101	D-15
IC102	C-13
IC201	F-25
IC202	I-13
IC203	E-25
IC204	G-12
IC301	G-11
IC302	H-14
IC303	I-12
IC401	D-13
Q201	E-25
Q202	C-10
Q203	F-11
Q204	H-12
Q205	F-10
Q301	G-15
Q401	E-12
Q402	E-12
Q403	D-11
Q404	D-11

Note on Printed Wiring Board:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  CND : Canadian
  G : German
  TW : Taiwan

【JACK BOARD】 (COMPONENT SIDE)

【JACK BOARD】 (CONDUCTOR SIDE)

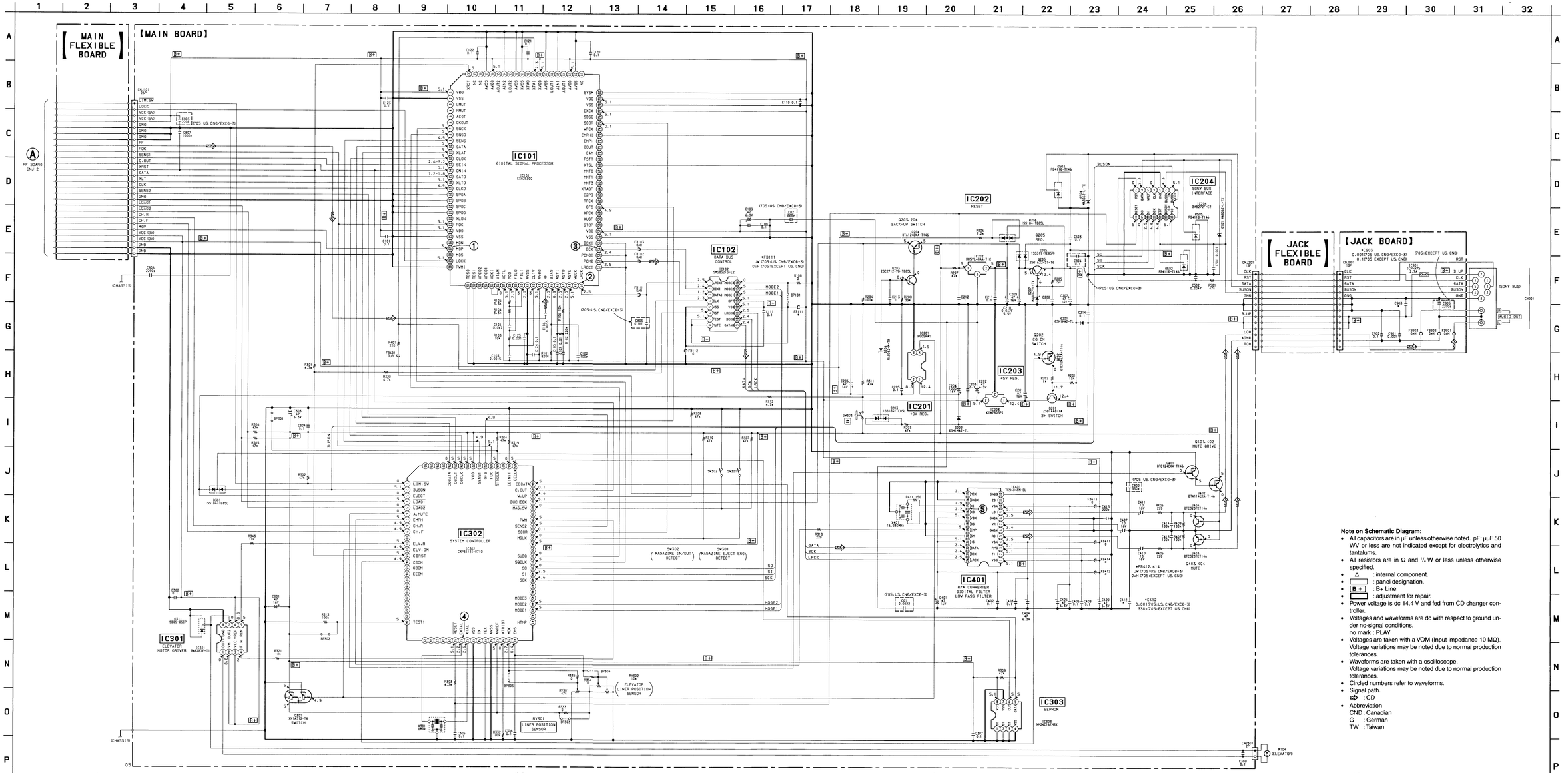
【JACK FLEXIBLE BOARD】

【MAIN BOARD】 (COMPONENT SIDE)

【MAIN FLEXIBLE BOARD】

【MAIN BOARD】 (CONDUCTOR SIDE)

3-3. SCHEMATIC DIAGRAM – MAIN Section –



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
- Abbreviation
  CND : Canadian
  G : German
  TW : Taiwan

3-4. PRINTED WIRING BOARDS – RF Section –

• **Semiconductor Location**

Ref. No.	Location
IC11	C-6
IC51	B-7
IC52	G-4
Q11	D-6

Note on Printed Wiring Board:
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

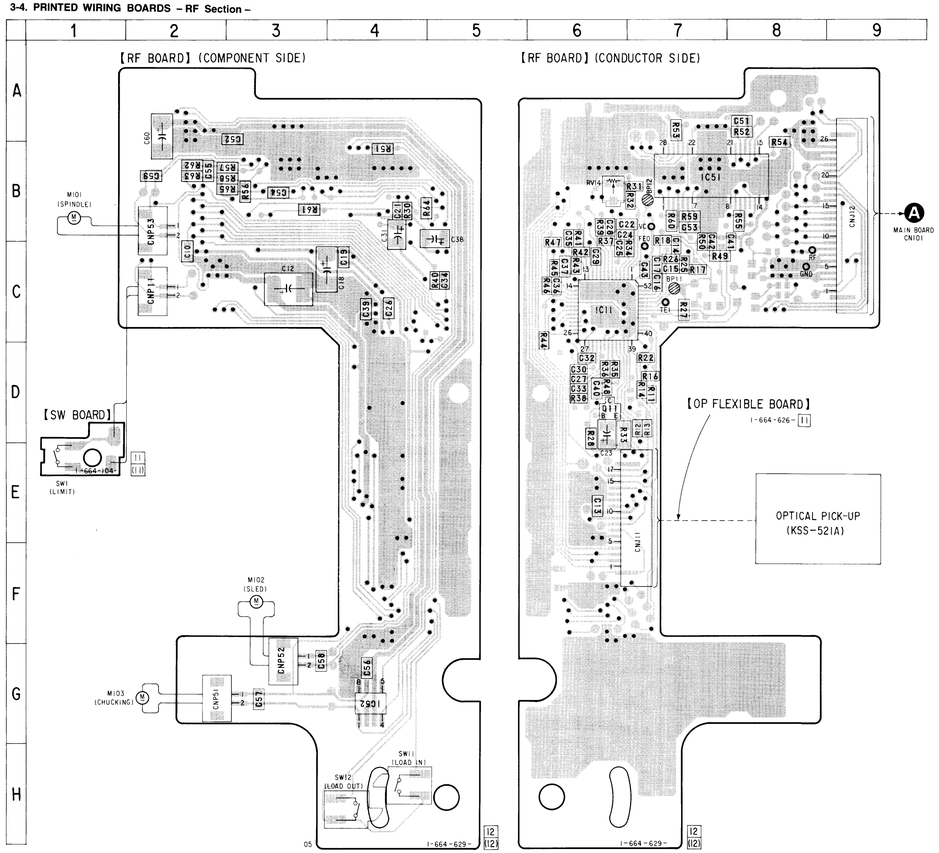
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

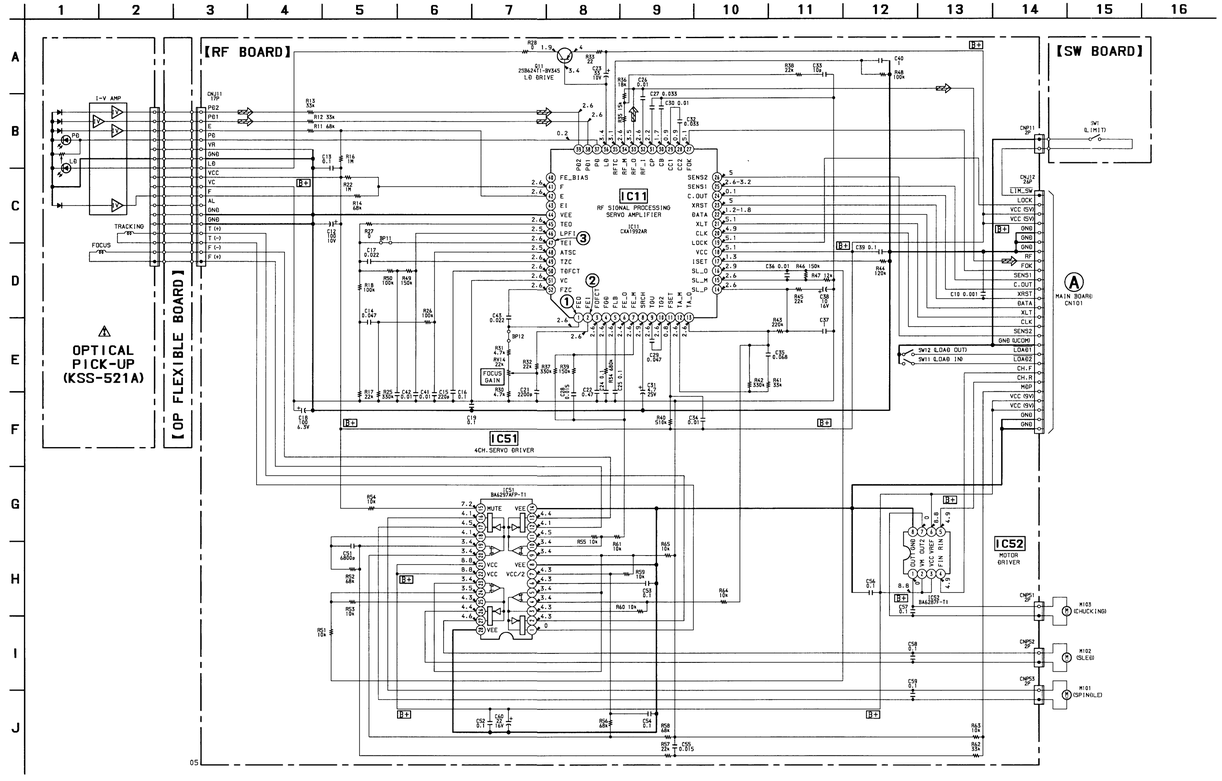
Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path. ⇨ : CD



3-5. SCHEMATIC DIAGRAM – RF Section –



3-6. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	1-664-631-13	JACK BOARD				
		**********				
		< CAPACITOR >				
C901	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(CDX-705: US, CND/EXCD-3)
C903	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
						(CDX-705: AEP, UK, G, E, TW)
C905	1-162-302-11	CERAMIC	0.0022uF	30%	16V	
						(CDX-705: AEP, UK, G, E, TW)
		< CONNECTOR >				
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)				
						(CDX-705)
CN901	1-779-077-21	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)				
						(EXCD-3)
CNJ901	1-778-775-21	CONNECTOR, FPC 13P				
		< FERRITE BEAD >				
FB901	1-500-445-21	INDUCTOR	0uH			
FB902	1-500-445-21	INDUCTOR	0uH			
FB903	1-500-445-21	INDUCTOR	0uH			
		< IC LINK >				
IC901	1-532-686-21	LINK, IC				
**********						
*	A-3313-212-A	MAIN BOARD, COMPLETE				
						(CDX-705: AEP, UK, G, E, TW)
*	A-3313-223-A	MAIN BOARD, COMPLETE				
						(CDX-705: US, CND/EXCD-3)
		**********				
*	3-012-099-01	HOLDER (TR2)				
*	3-016-116-01	TAPE (D), MOUNT (CDX-705: US, CND/EXCD-3)				
		< CAPACITOR >				
C01	1-162-302-11	CERAMIC	0.0022uF	30%	16V	
						(CDX-705: US, CND/EXCD-3)
C02	1-162-286-21	CERAMIC	220PF	10%	50V	
						(CDX-705: US, CND/EXCD-3)
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C103	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C104	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C106	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C107	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C109	1-126-513-11	ELECT	47uF	20%	6.3V	
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C111	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C120	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C122	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C123	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C124	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C201	1-124-589-11	ELECT	47uF	20%	16V	
C202	1-126-513-11	ELECT	47uF	20%	6.3V	
C203	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C204	1-115-466-00	ELECT	1000uF	20%	16V	
C205	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C206	1-124-589-11	ELECT	47uF	20%	16V	
C207	1-124-589-11	ELECT	47uF	20%	16V	
C208	1-164-346-11	CERAMIC CHIP	1uF		16V	
C209	1-124-589-11	ELECT	47uF	20%	16V	
C210	1-125-701-11	CAPACITOR	0.047F		5.5V	
C211	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C212	1-164-346-11	CERAMIC CHIP	1uF		16V	
C213	1-164-346-11	CERAMIC CHIP	1uF		16V	
C214	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C303	1-126-513-11	ELECT	47uF	20%	6.3V	
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C305	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C307	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V	

MAIN

Ref. No.	Part No.	Description				Remark
C401	1-124-589-11	ELECT	47uF	20%	16V	
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C404	1-126-513-11	ELECT	47uF	20%	6.3V	
C405	1-126-513-11	ELECT	47uF	20%	6.3V	
C406	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C407	1-126-157-11	ELECT	10uF	20%	16V	
C408	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C409	1-126-513-11	ELECT	47uF	20%	6.3V	
C410	1-126-157-11	ELECT	10uF	20%	16V	
C411	1-126-157-11	ELECT	10uF	20%	16V	
C412	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(CDX-705: US, CND/EXCD-3)
C412	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
						(CDX-705: AEP, UK, G, E, TW)
C413	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C415	1-163-259-00	CERAMIC CHIP	220PF	5%	50V	
C501	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C502	1-163-029-11	CERAMIC CHIP	0.0047uF		50V	
C503	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C801	1-104-823-11	TANTAL. CHIP	47uF	20%	16V	
C802	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
						(CDX-705: US, CND/EXCD-3)
C803	1-163-259-00	CERAMIC CHIP	220PF	5%	50V	
						(CDX-705: US, CND/EXCD-3)
C804	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
						(CDX-705: US, CND/EXCD-3)
C805	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(CDX-705: US, CND/EXCD-3)
C806	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C807	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >				
CNJ101	1-770-351-11	CONNECTOR, FPC 26P				
CNJ201	1-770-350-21	CONNECTOR, FPC 13P				
CNP301	1-580-055-21	PIN, CONNECTOR 2P				
		< DIODE >				
D201	8-719-210-33	DIODE EC10DS2				
D202	8-719-210-33	DIODE EC10DS2				
D203	8-719-801-78	DIODE 1SS184				
D204	8-719-422-64	DIODE MA8062-M				
D205	8-719-038-48	DIODE 1SS319(TE85R)				
D206	8-719-801-78	DIODE 1SS184				
D207	8-719-422-62	DIODE MA8062-L-TX				
D301	8-719-801-78	DIODE 1SS184				
D311	8-719-938-75	DIODE SB05-05CP				
D501	8-719-422-62	DIODE MA8062-L-TX				
D502	8-719-975-40	DIODE RB411D				
D503	8-719-975-40	DIODE RB411D				
D504	8-719-422-62	DIODE MA8062-L-TX				
D505	8-719-975-40	DIODE RB411D				

Ref. No.	Part No.	Description				Remark
		< FERRITE BEAD >				
FB101	1-500-445-21	INDUCTOR 0uH				
FB102	1-500-445-21	INDUCTOR 0uH				
FB103	1-500-445-21	INDUCTOR 0uH				
FB111	1-216-295-00	CONDUCTOR, CHIP (2012)				
						(CDX-705: US, CND/EXCD-3)
FB111	1-500-445-21	INDUCTOR 0uH				
						(CDX-705: AEP, UK, G, E, TW)
FB112	1-216-295-00	CONDUCTOR, CHIP (2012)				
FB401	1-500-445-21	INDUCTOR 0uH				
FB411	1-216-295-00	CONDUCTOR, CHIP (2012)				
FB412	1-216-295-00	CONDUCTOR, CHIP (2012)				
						(CDX-705: US, CND/EXCD-3)
FB412	1-500-445-21	INDUCTOR 0uH				
						(CDX-705: AEP, UK, G, E, TW)
FB413	1-216-295-00	CONDUCTOR, CHIP (2012)				
FB414	1-216-295-00	CONDUCTOR, CHIP (2012)				
						(CDX-705: US, CND/EXCD-3)
FB414	1-500-445-21	INDUCTOR 0uH				
						(CDX-705: AEP, UK, G, E, TW)
		< IC >				
IC101	8-752-384-15	IC CXD2530Q				
IC102	8-759-473-70	IC SM5852FS-E2				
IC201	8-759-054-12	IC PQ09RA1				
IC202	8-759-443-41	IC RH5VL40AA-T1C				
IC203	8-759-324-40	IC KIA7805PI				
IC204	8-759-444-86	IC BA8272F-E2				
IC301	8-759-040-83	IC BA6287F				
IC302	8-752-886-25	IC CXP84124-071Q				
IC303	8-759-253-82	IC AT24C16N-10SI-TR				
IC401	8-759-327-78	IC TC9404FN-EL				
		< TRANSISTOR >				
Q201	8-729-016-83	TRANSISTOR 2SB1446				
Q202	8-729-901-00	TRANSISTOR DTC124EK				
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q204	8-729-027-31	TRANSISTOR DTA124EKA-T146				
Q205	8-729-822-05	TRANSISTOR 2SD1622-ST-TD				
Q301	8-729-020-67	TRANSISTOR XN1A312-TX				
Q401	8-729-901-00	TRANSISTOR DTC124EK				
Q402	8-729-027-23	TRANSISTOR DTA114EKA-T146				
Q403	8-729-015-39	TRANSISTOR DTC323TK				
Q404	8-729-015-39	TRANSISTOR DTC323TK				
		< RESISTOR >				
R101	1-216-119-00	METAL CHIP	820K	5%	1/10W	
R102	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R108	1-216-295-00	CONDUCTOR, CHIP (2012)				
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R202	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R203	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R204	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R205	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R207	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R208	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R302	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R303	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R304	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R305	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R306	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R307	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R308	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R309	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R310	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R311	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R312	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R313	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R318	1-216-033-00	METAL CHIP	220	5%	1/10W	
R319	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R320	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R321	1-216-073-00	METAL CHIP	10K	5%	1/10W	
			(CDX-705: AEP, UK, G, E, TW)			
R321	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
			(CDX-705: US, CND/EXCD-3)			
R332	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R333	1-216-295-00	CONDUCTOR, CHIP (2012)				
R334	1-216-295-00	CONDUCTOR, CHIP (2012)				
R335	1-216-295-00	CONDUCTOR, CHIP (2012)				
R343	1-216-073-00	METAL CHIP	10K	5%	1/10W	
			(CDX-705: AEP, UK, G, E, TW)			
R401	1-216-033-00	METAL CHIP	220	5%	1/10W	
R405	1-216-033-00	METAL CHIP	220	5%	1/10W	
R406	1-216-033-00	METAL CHIP	220	5%	1/10W	
R407	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R408	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R411	1-216-029-00	METAL CHIP	150	5%	1/10W	
R501	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV301	1-223-834-11	RES, ADJ, CARBON 47K				
RV302	1-225-412-11	RES, VAR, SLIDE 10K				
		(ELEVATOR LINER POSITION SENSOR)				
		< SWITCH >				
SW301	1-762-108-31	SWITCH, PUSH (1 KEY)				
		(MAGAZINE EJECT END DETECT)				
SW302	1-762-108-31	SWITCH, PUSH (1 KEY)				
		(MAGAZINE IN/OUT DETECT)				
SW303	1-571-532-21	SWITCH, TACTIL (⏏)				

Ref. No.	Part No.	Description				Remark
		< VIBRATOR >				
X301	1-767-261-21	VIBRATOR, CERAMIC (8MHz)				
X401	1-767-511-11	VIBRATOR, CERAMIC (16.930MHz)				
**********						
*	A-3309-786-A	RF BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C10	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C12	1-113-500-11	TANTAL. CHIP	100uF	20%	10V	
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C14	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C15	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C17	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C18	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V	
C19	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C23	1-113-682-11	TANTAL. CHIP	33uF	20%	10V	
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C28	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
C29	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C31	1-113-987-11	TANTAL. CHIP	4.7uF	20%	25V	
C32	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C33	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C35	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C37	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C38	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	
C39	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C40	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C43	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V	
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C57	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C58	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C60	1-104-914-11	TANTAL. CHIP	22uF	20%	16V	

RF **SW**

Ref. No.	Part No.	Description				Remark
		< CONNECTOR >				
CNJ11	1-778-776-21	CONNECTOR, FPC 17P				
CNJ12	1-778-777-21	CONNECTOR, FPC 26P				
CNP11	1-580-055-21	PIN, CONNECTOR 2P				
CNP51	1-580-055-21	PIN, CONNECTOR 2P				
CNP52	1-580-055-21	PIN, CONNECTOR 2P				
CNP53	1-580-055-21	PIN, CONNECTOR 2P				
		< IC >				
IC11	8-752-080-62	IC CXA1992AR				
IC51	8-759-071-79	IC BA6297AFP				
IC52	8-759-040-83	IC BA6287F				
		< TRANSISTOR >				
Q11	8-729-141-48	TRANSISTOR 2SB624-BV345				
		< RESISTOR >				
R11	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R12	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R13	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R14	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R16	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R17	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R18	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R22	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R25	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R26	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R27	1-216-295-00	CONDUCTOR, CHIP (2012)				
R28	1-216-295-00	CONDUCTOR, CHIP (2012)				
R30	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R31	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R32	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R33	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R34	1-216-855-11	METAL CHIP	680K	5%	1/16W	
R35	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R36	1-216-836-11	METAL CHIP	18K	5%	1/16W	
R37	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R38	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R39	1-216-847-11	METAL CHIP	150K	5%	1/16W	
R40	1-218-273-11	METAL GLAZE	510K	5%	1/16W	
R41	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R42	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R43	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R44	1-216-846-11	METAL CHIP	120K	5%	1/16W	
R45	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R46	1-216-847-11	METAL CHIP	150K	5%	1/16W	
R47	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R48	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R49	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R50	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R51	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R52	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R55	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R56	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R57	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R58	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R59	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R60	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R61	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R62	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R63	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV14	1-238-091-11	RES, ADJ, CERMET 22K				
		< SWITCH >				
SW11	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD IN)				
SW12	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD OUT)				
**********						
*	1-664-104-11	SW BOARD				
		********				
		< SWITCH >				
SW1	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)				

CDX-705/EXCD-3

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-705/EXCD-3
AEP Model
UK Model
E Model
CDX-705

SUPPLEMENT-3

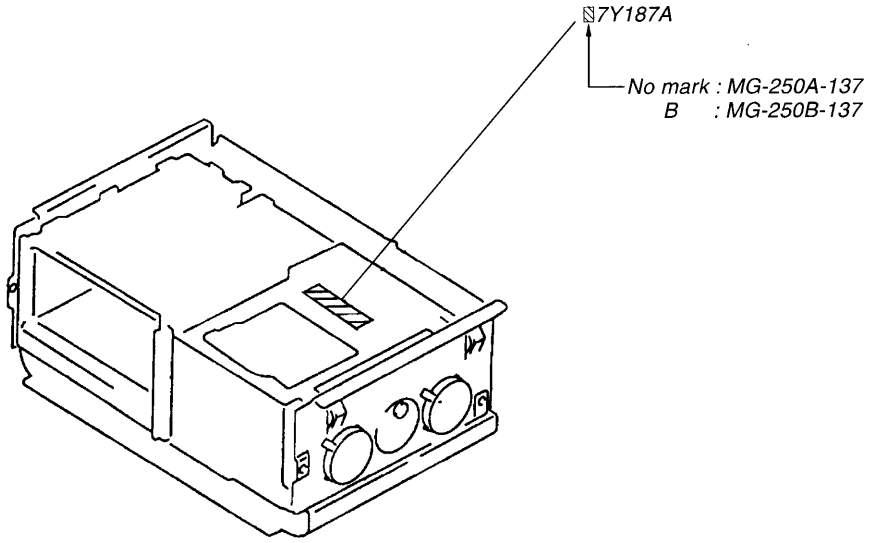
File this supplement with the service manual.

Subject: Mechanism Deck Modification (MG-250B-137)

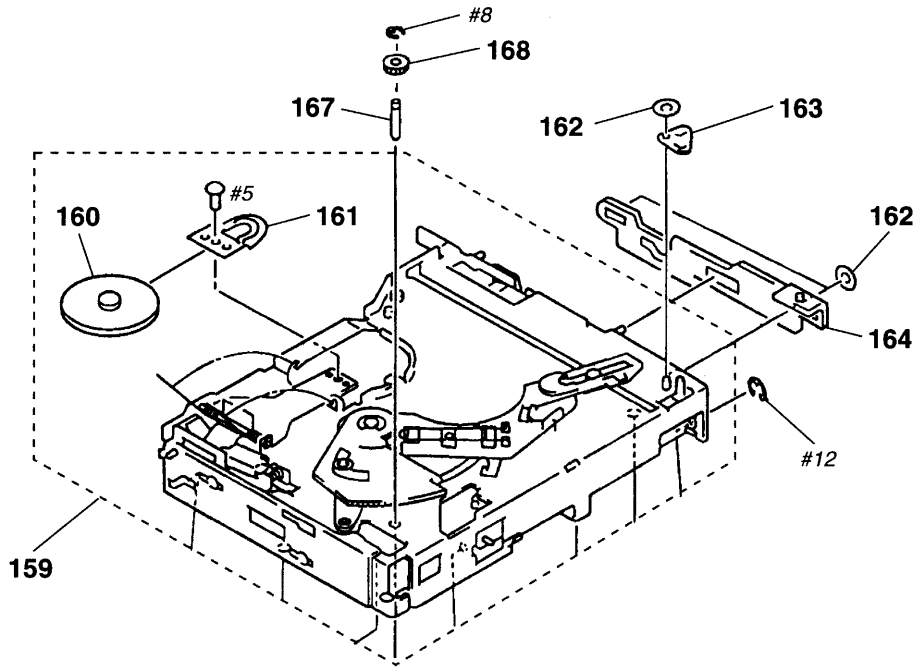
(ENG-98001)

The mechanism deck was changed from MG-250A-137 to MG-250B-137,
This supplement contains only a difference parts.

• New / Former Discrimination



• Difference Parts

Page	Former (MG-250A-137)
38	
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	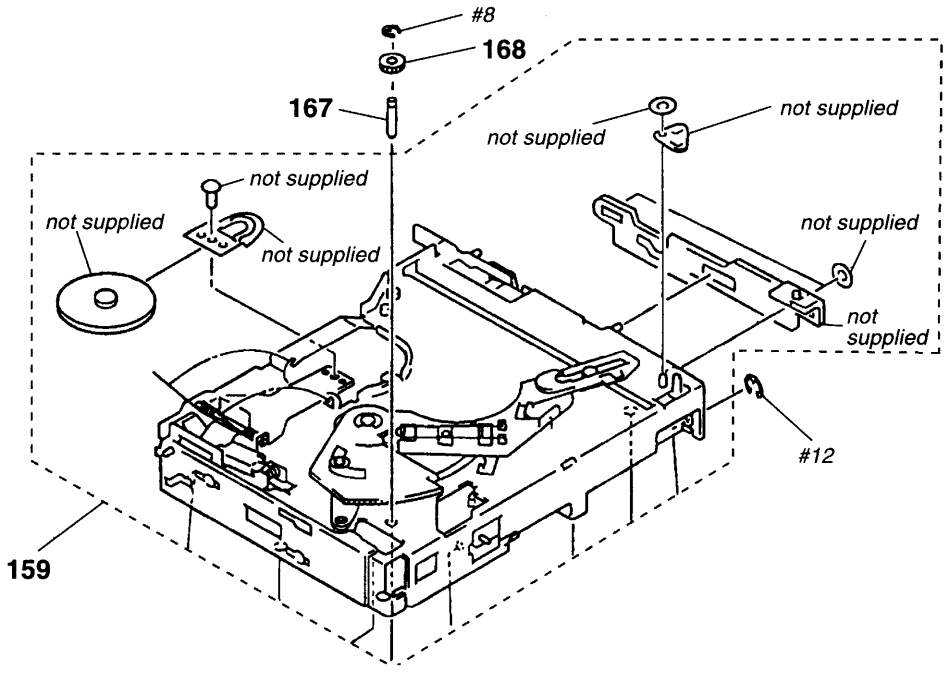

Former (MG-250A-137)				New (MG-250B-137)			
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
159	A-3228-939-A	MAIN ASSY, CHASSIS (ELV)		159	A-3290-155-A	MAIN ASSY, CHASSIS (EVT)	
160	3-010-242-01	RETAINER (DISC)		160	————	————	
* 161	3-010-243-01	BRACKET (CP)		161	————	————	
162	3-736-073-01	SLIDER, POLYETHYLENE		162	————	————	
163	3-010-251-01	ARM (CONVERSION AB)		163	————	————	
* 164	X-3373-232-1	LEVER (LOCK 3) ASSY		164	————	————	

• Items marked "*" are not stocked since they are seldom required for routine service.
Some delay should be anticipated when ordering these items.

<table>
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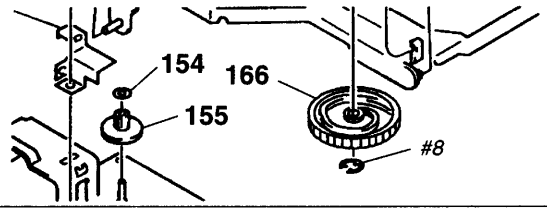
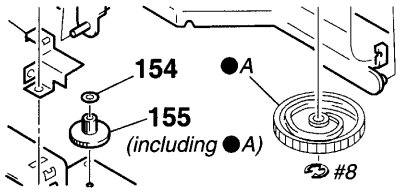
<tr><td rowspan="2">38</td><td> 
</td><td> 
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<tr><td>155</td><td>3-010-248-01</td><td>GEAR (WORM LOAD 1)</td><td></td></tr>
<tr><td>166</td><td>X-3373-552-1</td><td>GEAR (LOAD 1) ASSY</td><td></td></tr>
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<tr><td>42</td><td>IC11 8-752-080-62 IC CXA1992AR</td><td>IC11 8-752-082-14 IC CXA1992BR</td></tr>
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MEMO

CDX-705/EXCD-3

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-705/EXCD-3
AEP Model
UK Model
E Model
CDX-705

SUPPLEMENT-4

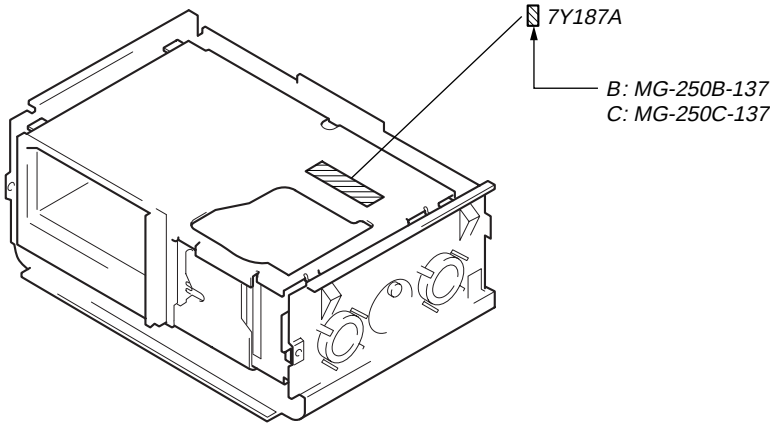
File this supplement with the service manual.

Subject: Mechanism Deck Modification (MG-250C-137)

(ENG-98014)

The mechanism deck was changed from MG-250B-137 to MG-250C-137.
At the same time, main and jack boards were been changed.
This supplement contains only a new type mechanism deck.

1. NEW/FORMER DISCRIMINATION



2. DIAGRAMS

2-1. NOTES FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

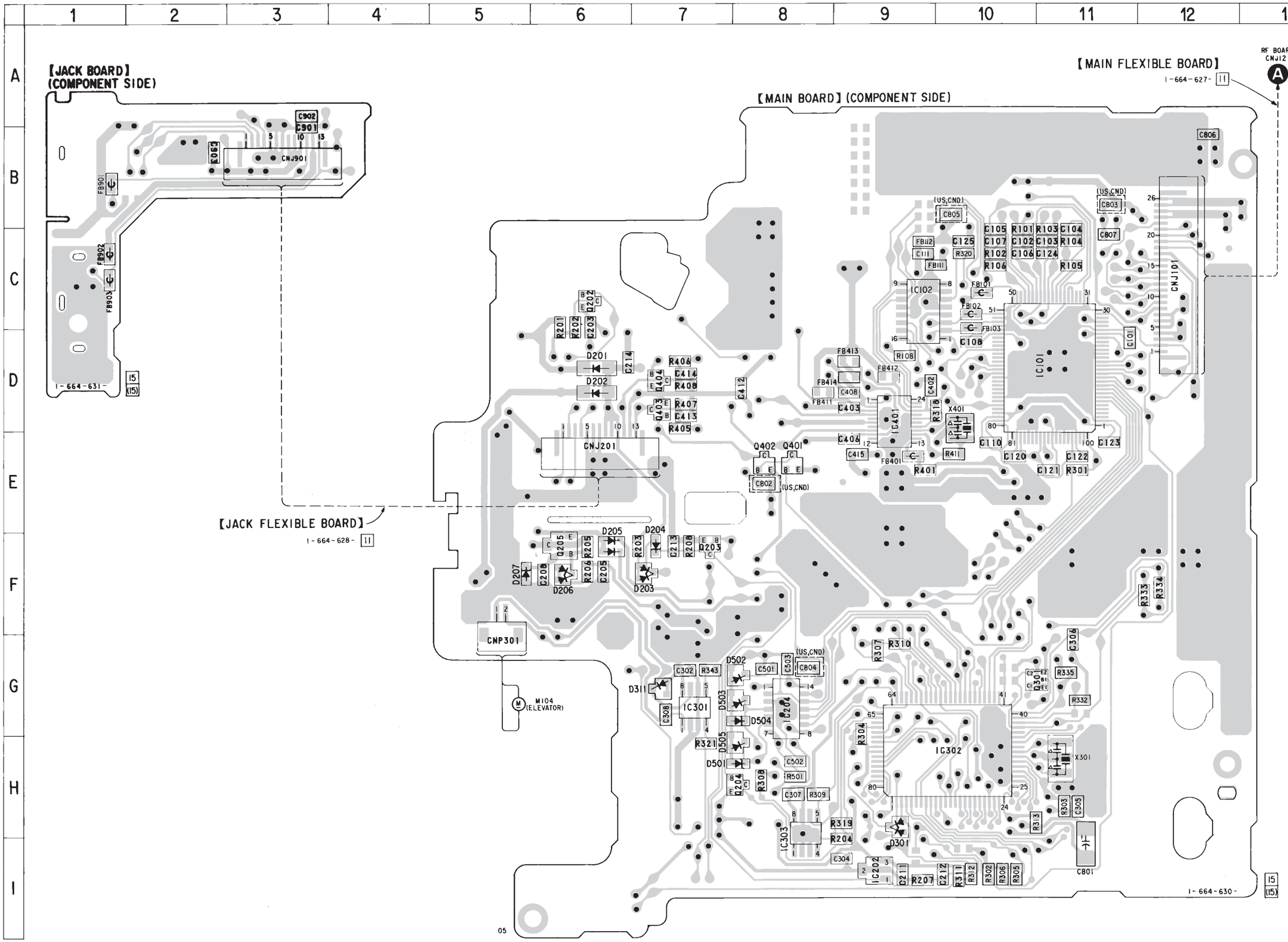
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  CND : Canadian

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4 V and fed front CD changer controller.
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : CD
- Abbreviation
  CND : Canadian

2-2. PRINTED WIRING BOARDS – MAIN/JACK BOARD (Component side) –

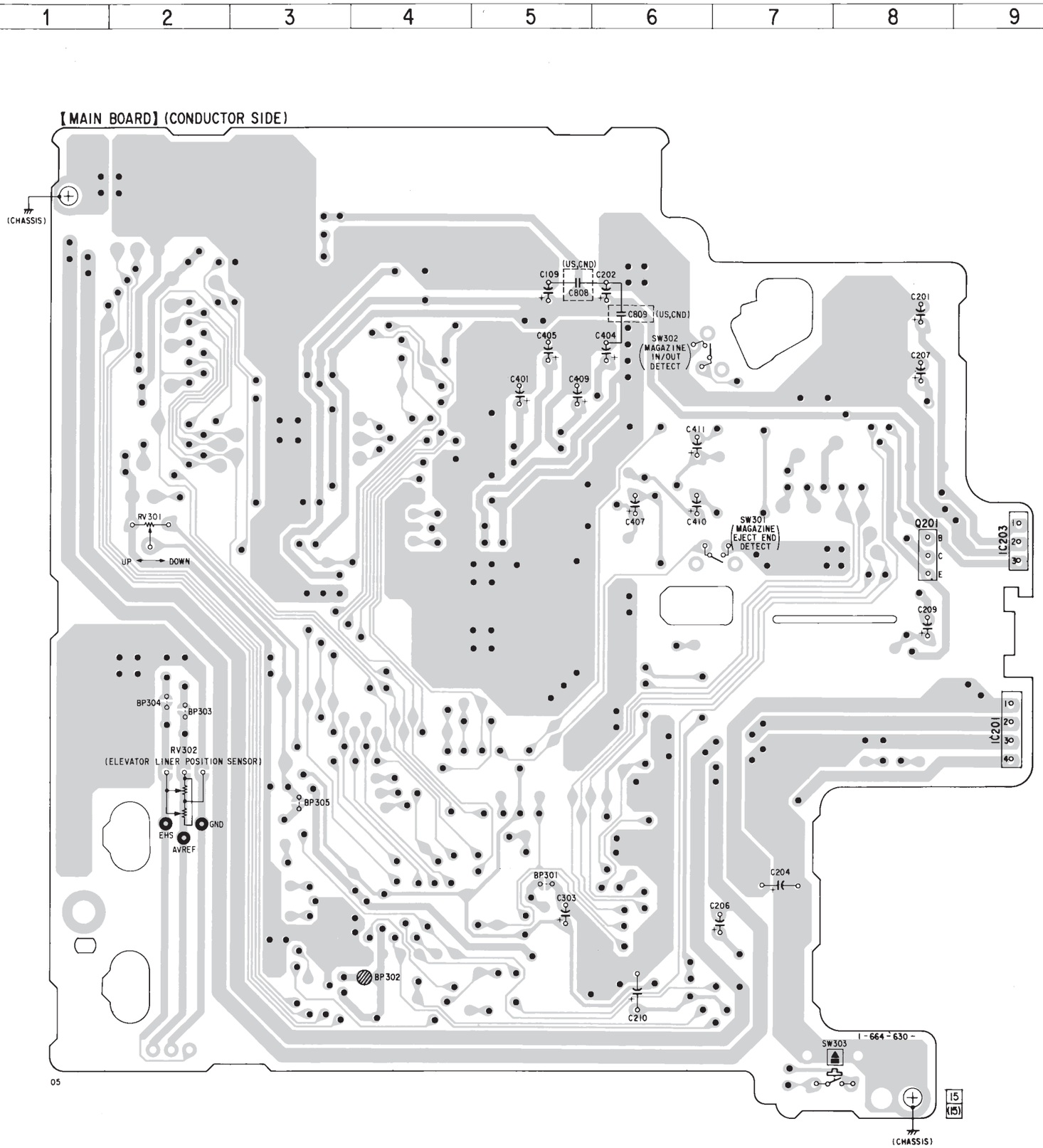


- **Semiconductor Location**

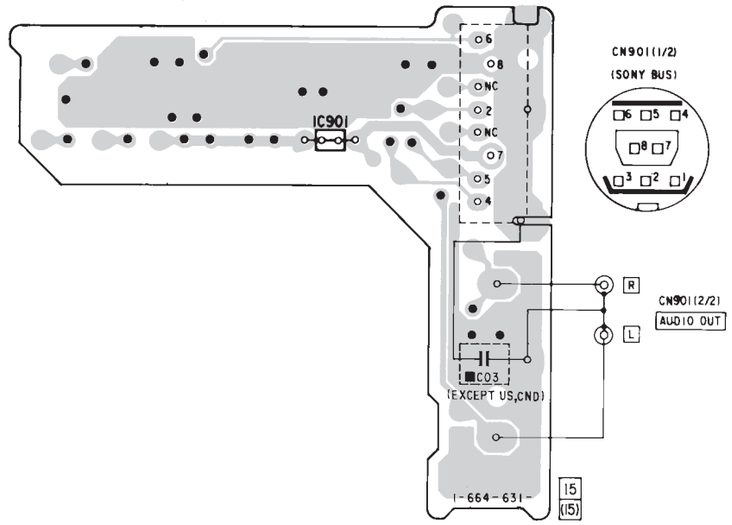
Ref. No.	Location
D201	D-6
D202	D-6
D203	F-7
D204	F-7
D205	F-6
D206	F-6
D207	F-5
D301	H-9
D311	G-7
D501	H-8
D502	G-8
D503	G-8
D504	G-8
D505	H-8
IC101	D-11
IC102	C-9
IC202	I-9
IC204	G-8
IC301	G-7
IC302	H-10
IC303	H-8
IC401	D-9
Q202	C-6
Q203	F-7
Q204	H-8
Q205	F-6
Q301	G-11
Q401	E-8
Q402	E-8
Q403	D-7
Q404	D-7

2-3. PRINTED WIRING BOARDS – MAIN/JACK BOARD (Conductor side) –

【MAIN BOARD】(CONDUCTOR SIDE)



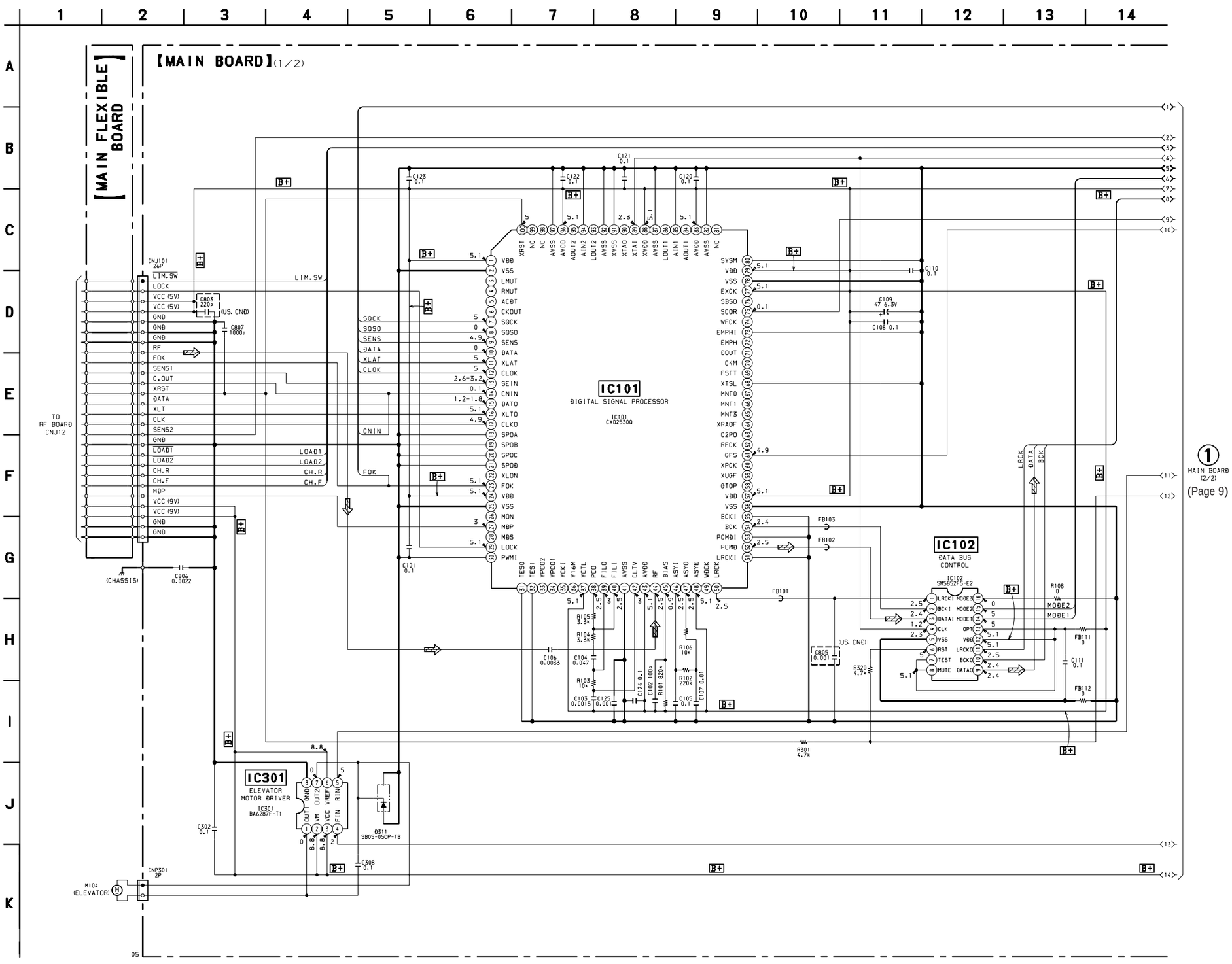
【JACK BOARD】
(CONDUCTOR SIDE)



- **Semiconductor Location**

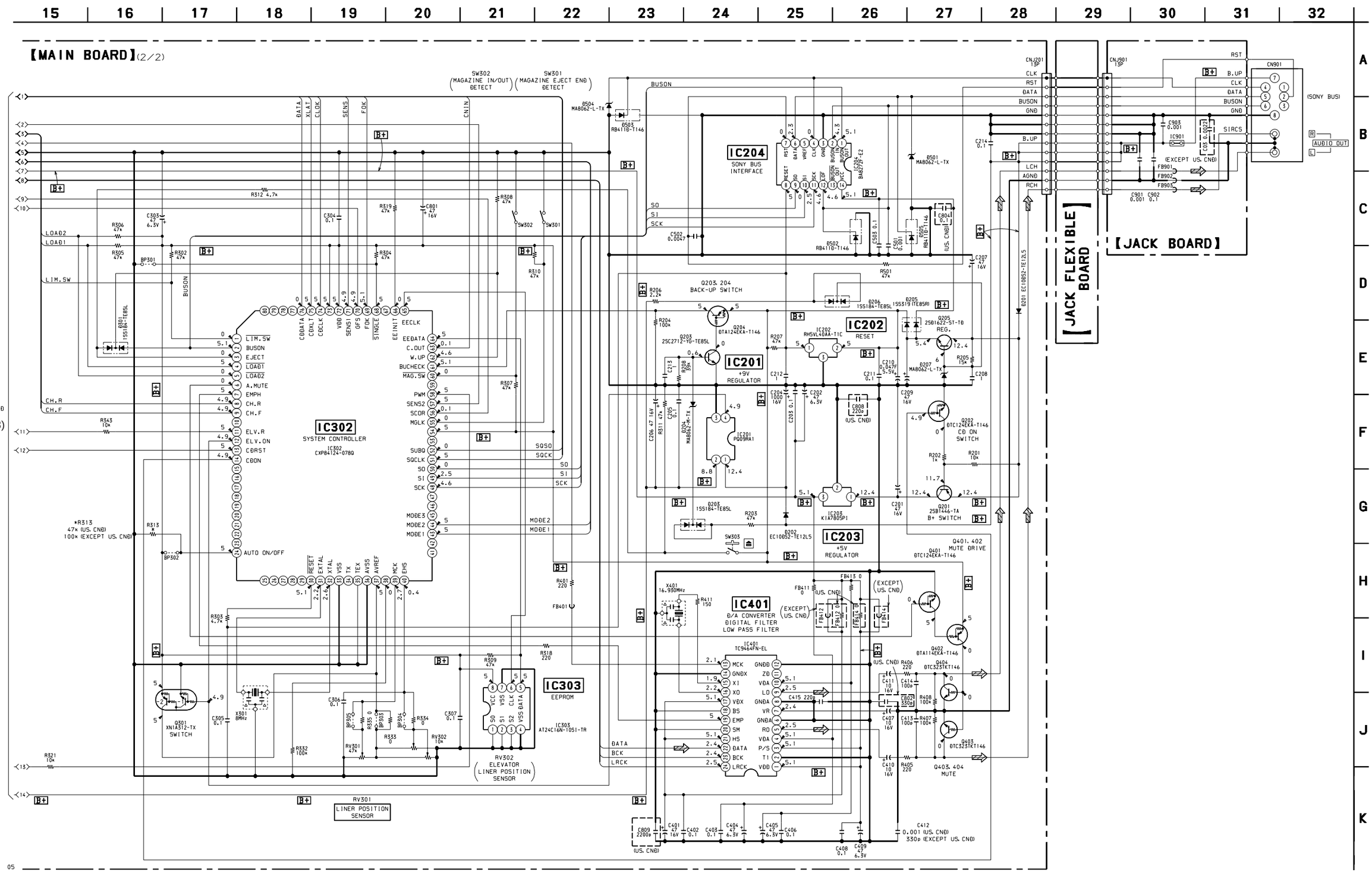
Ref. No.	Location
IC201	F-9
IC203	E-9
Q201	E-8

2-4. SCHEMATIC DIAGRAM – MAIN Section (1/2) –



2-5. SCHEMATIC DIAGRAM – MAIN Section (2/2) –

【MAIN BOARD】(2/2)



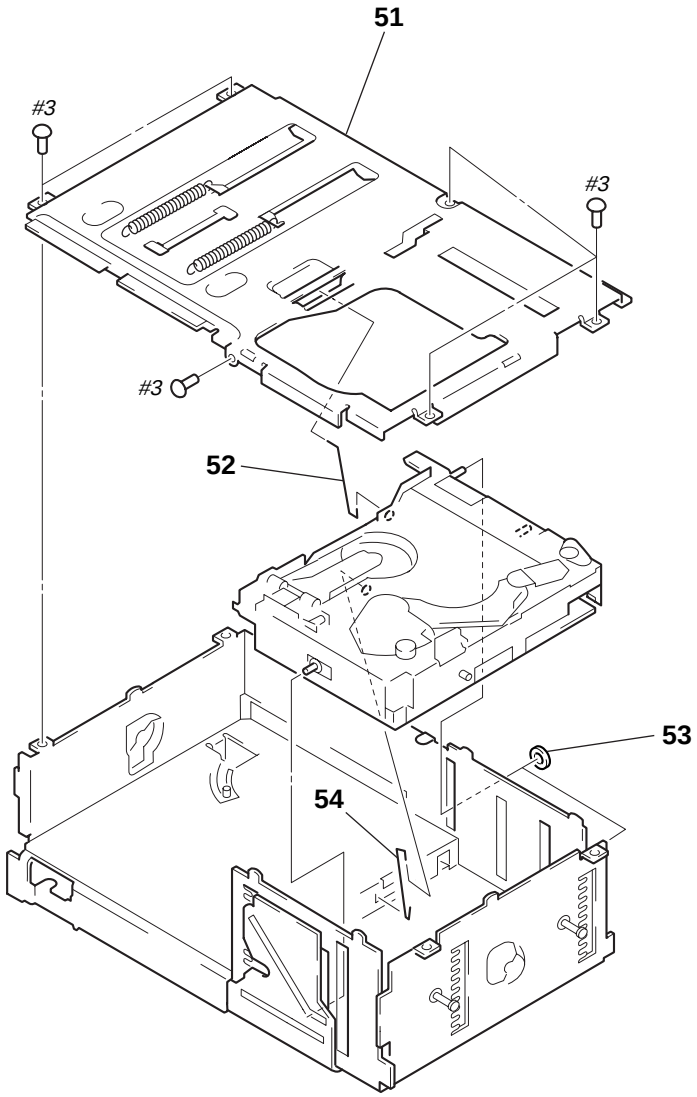
3. EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

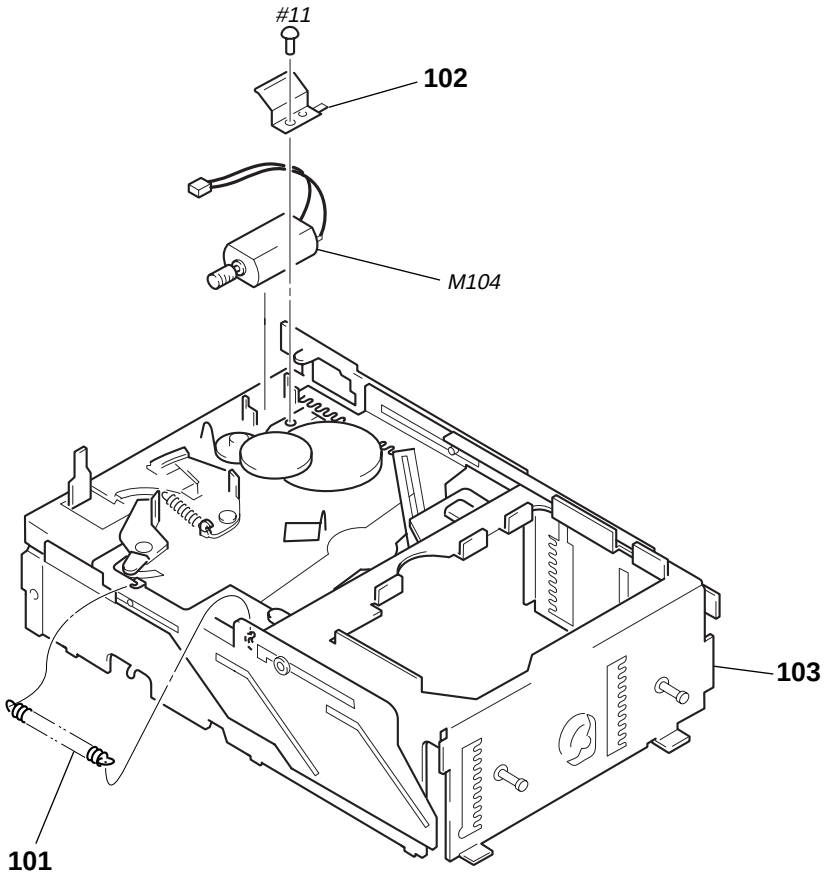
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(2) MECHANISM DECK SECTION-1 (MG-250C-137)



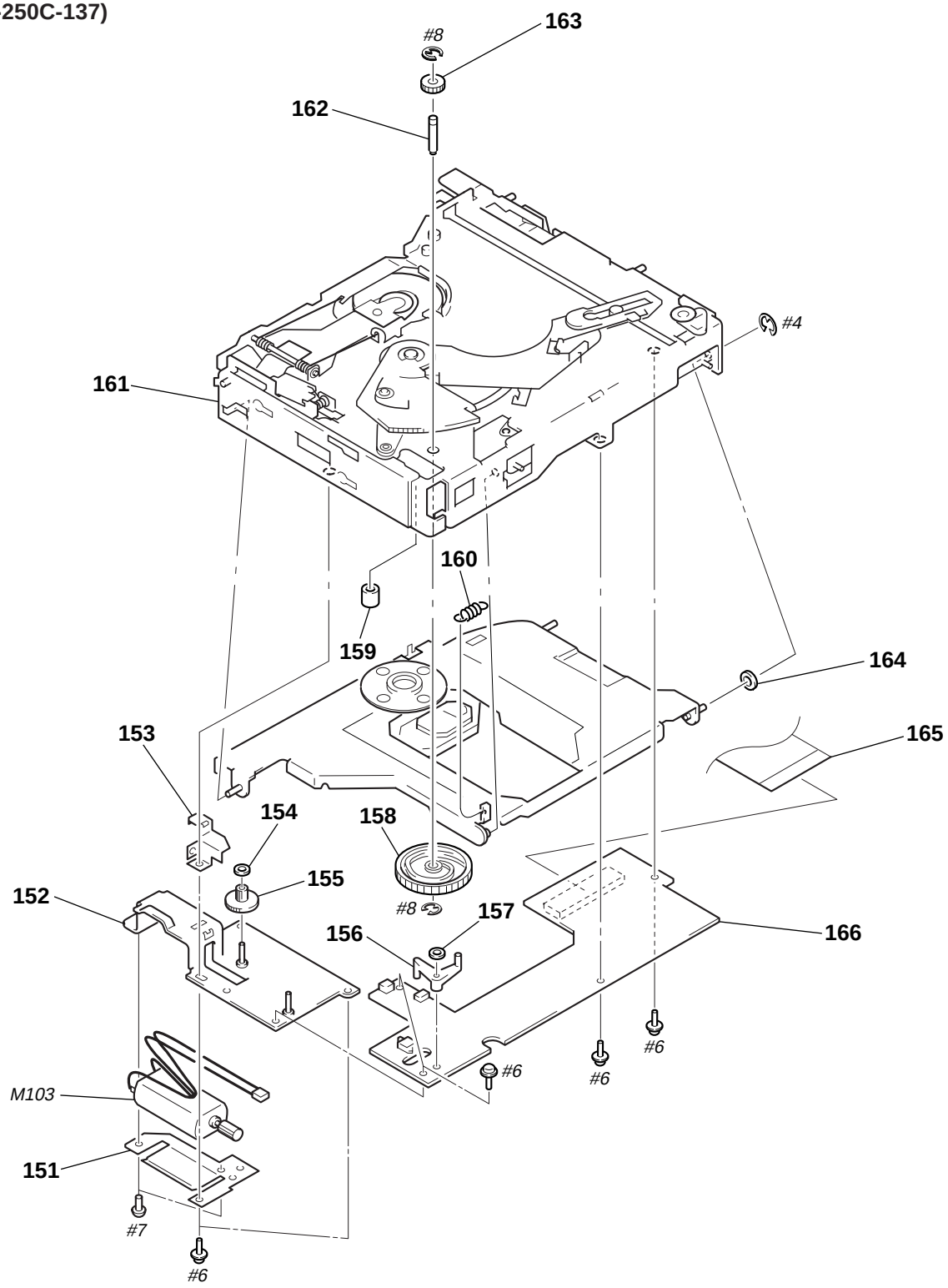
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3375-497-1	CHASSIS (U) SUB ASSY		53	4-965-759-01	WASHER, POLYETHYLENE	
52	3-024-161-01	SPRING (SUT)		54	3-011-997-01	SPRING (STOPPER. LOWER)	

(3) MECHANISM DECK SECTION-2 (MG-250C-137)



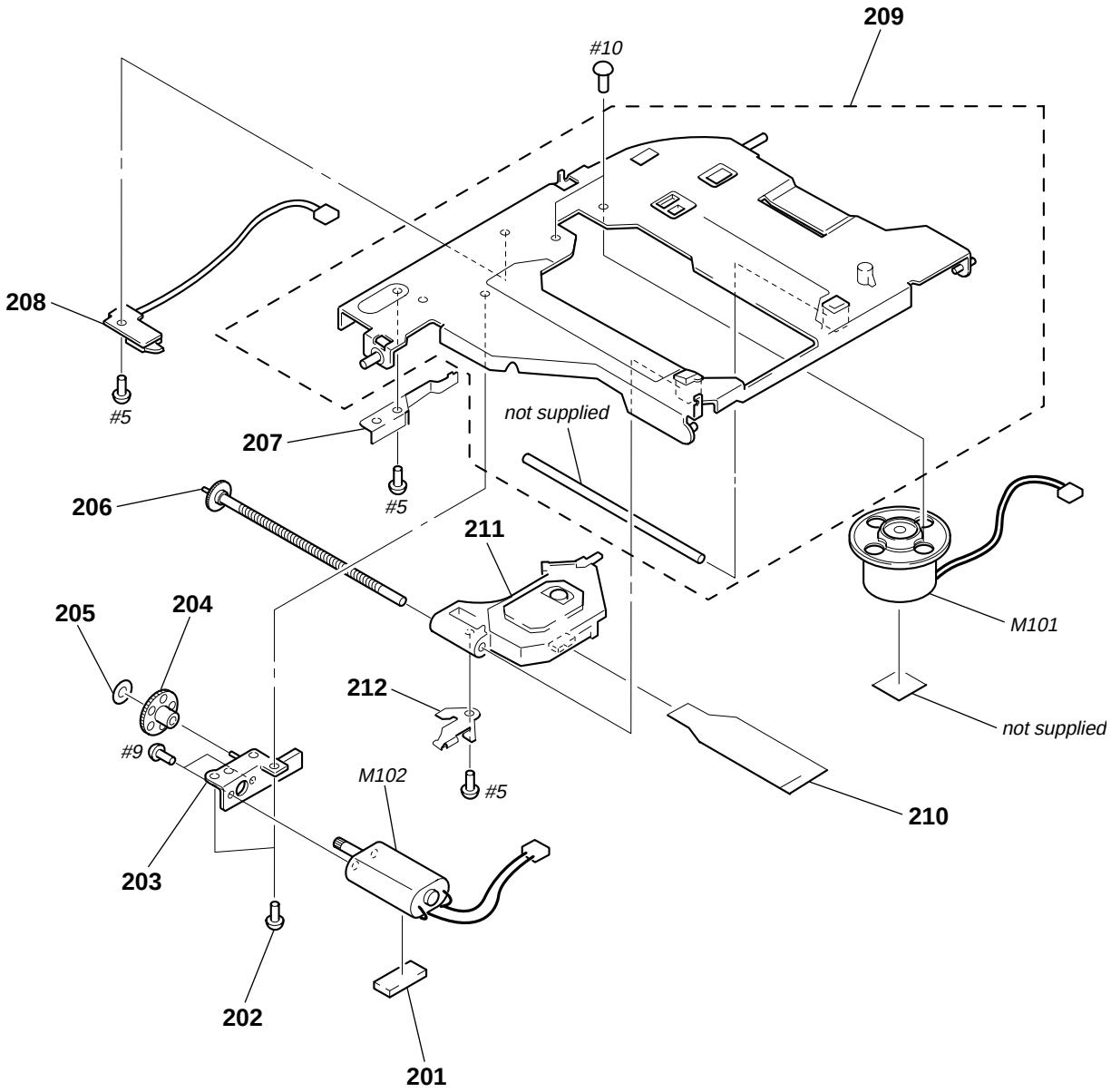
Ref. No.	Part No.	Description	Remark
101	3-024-170-01	SPRING (SB), TENSION	
* 102	3-024-172-01	BRACKET (EVM)	
103	X-3375-498-1	CHASSIS (D) SUB ASSY	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	

(4) MECHANISM DECK SECTION-3 (MG-250C-137)



Ref. No.	Part No.	Description	Remark
* 151	3-024-150-01	RETAINER (CHM)	
* 152	X-3375-445-1	BRACKET (CHM) ASSY	
153	3-010-270-01	COVER (CHM)	
154	3-321-813-01	WASHER, COTTER POLYETHYLENE	
155	3-017-139-01	GEAR (WORM LOAD A)	
156	3-010-255-01	ARM (LSW)	
157	3-573-936-00	STOPPER, REEL	
158	X-3373-552-1	GEAR (LOAD 1) ASSY	
159	3-010-252-01	ROLLER (CRE)	
160	3-010-268-01	SPRING (DH), TENSION	
* 161	A-3290-194-D	CHASSIS (EVY) (MAIN) ASSY	
162	3-010-254-01	SHAFT (ROTARY PREVENTION C)	
163	3-010-253-01	GEAR (LOMINI)	
164	3-701-438-11	WASHER, 2.5	
165	1-664-627-11	MAIN FLEXIBLE BOARD	
* 166	A-3313-586-A	RF BOARD, COMPLETE	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	

(5) MECHANISM DECK SECTION-4 (MG-250C-137)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
201	3-911-215-02	SHEET (LEAD RETAINER)	
202	3-920-362-01	SCREW (ESCUTCHEON)	
203	X-3373-229-1	BASE (SLED) ASSY	
204	3-010-258-01	GEAR (SLED MID)	
205	3-573-936-00	STOPPER, REEL	
206	A-3291-958-A	SHAFT (SLED) ASSY	
207	3-010-263-01	DETENT (SHAFT THRUST)	
* 208	1-664-104-11	SW BOARD	
* 209	A-3301-077-A	BASE (OPT) (J) ASSY	
210	1-664-626-11	OP FLEXIBLE BOARD	
⚠211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
212	3-010-262-01	DETENT (SLED)	
M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	

5. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CND : Canadian
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-664-631-15	JACK BOARD			
		**********			
		< CAPACITOR >			
C03	1-162-302-11	CERAMIC	0.0022	30%	16V
				(EXCEPT US, CND)	
C901	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN901	1-779-077-21	PLUG, CONNECTOR (SONY BUS, AUDIO OUT)			
CNJ901	1-778-775-21	CONNECTOR, FPC 13P			
		< FERRITE BEAD >			
FB901	1-500-445-21	FERRITE	0uH		
FB902	1-500-445-21	FERRITE	0uH		
FB903	1-500-445-21	FERRITE	0uH		
		< IC LINK >			
IC901	1-532-686-21	LINK, IC			
**********					
	A-3313-973-A	MAIN BOARD, COMPLETE (EXCEPT US, CND)			
	A-3313-981-A	MAIN BOARD, COMPLETE (US, CND)			
		**********			
*	3-016-116-01	TAPE (D), MOUNT			
*	3-022-694-01	HOLDER (TR3)			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C104	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C106	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C107	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-126-513-11	ELECT	47uF	20%	6.3V
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C111	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C120	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C122	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C123	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C124	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-124-589-11	ELECT	47uF	20%	16V
C202	1-126-513-11	ELECT	47uF	20%	6.3V
C203	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C204	1-115-466-11	ELECT	1000uF	20%	16V
C205	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C206	1-124-589-11	ELECT	47uF	20%	16V
C207	1-124-589-11	ELECT	47uF	20%	16V
C208	1-164-346-11	CERAMIC CHIP	1uF		16V
C209	1-124-589-11	ELECT	47uF	20%	16V
C210	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C211	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C212	1-164-346-11	CERAMIC CHIP	1uF		16V
C213	1-164-346-11	CERAMIC CHIP	1uF		16V
C214	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C303	1-126-513-11	ELECT	47uF	20%	6.3V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C307	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C401	1-124-589-11	ELECT	47uF	20%	16V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C404	1-126-513-11	ELECT	47uF	20%	6.3V
C405	1-126-513-11	ELECT	47uF	20%	6.3V
C406	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C407	1-126-157-11	ELECT	10uF	20%	16V
C408	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C409	1-126-513-11	ELECT	47uF	20%	6.3V
C410	1-126-157-11	ELECT	10uF	20%	16V
C411	1-126-157-11	ELECT	10uF	20%	16V
C412	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
					(US, CND)
C412	1-163-263-11	CERAMIC CHIP	330P	5%	50V
				(EXCEPT US, CND)	
C413	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C415	1-163-259-11	CERAMIC CHIP	220PF	5%	50V
C501	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C502	1-163-029-11	CERAMIC CHIP	0.0047uF		50V
C503	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C801	1-104-823-11	TANTAL. CHIP	47uF	20%	16V
C802	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (US, CND)
C803	1-163-259-11	CERAMIC CHIP	220PF	5%	50V (US, CND)
C804	1-163-038-00	CERAMIC CHIP	0.1uF		25V (US, CND)
C805	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (US, CND)
C806	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C807	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C808	1-162-286-21	CERAMIC	220PF	10%	50V (US, CND)
C809	1-162-302-11	CERAMIC	0.0022uF	30%	16V (US, CND)
		< CONNECTOR >			
CNJ101	1-770-351-11	CONNECTOR, FPC 26P			
CNJ201	1-770-350-21	CONNECTOR, FPC 13P			
CNP301	1-580-055-21	PIN, CONNECTOR 2P			
		< DIODE >			
D201	8-719-210-33	DIODE EC10DS2			
D202	8-719-210-33	DIODE EC10DS2			
D203	8-719-801-78	DIODE 1SS184			
D204	8-719-422-64	DIODE MA8062-M			
D205	8-719-038-48	DIODE 1SS319 (TE85R)			
D206	8-719-801-78	DIODE 1SS184			
D207	8-719-422-62	DIODE MA8062-L-TX			
D301	8-719-801-78	DIODE 1SS184			
D311	8-719-938-75	DIODE SB05-05CP			
D501	8-719-422-62	DIODE MA8062-L-TX			
D502	8-719-975-40	DIODE RB411D			
D503	8-719-975-40	DIODE RB411D			
D504	8-719-422-62	DIODE MA8062-L-TX			
D505	8-719-975-40	DIODE RB411D			
		< FERRITE BEAD >			
FB101	1-500-445-21	FERRITE	0uH		
FB102	1-500-445-21	FERRITE	0uH		
FB103	1-500-445-21	FERRITE	0uH		
FB111	1-216-295-00	SHORT	0		
FB112	1-216-295-00	SHORT	0		
FB401	1-500-445-21	FERRITE	0uH		
FB411	1-216-295-00	SHORT	0		
FB412	1-216-295-00	SHORT	0 (US, CND)		
FB412	1-500-445-21	FERRITE	0uH (EXCEPT US, CND)		
FB413	1-216-295-00	SHORT	0		
FB414	1-216-295-00	SHORT	0 (US, CND)		
FB414	1-500-445-21	FERRITE	0uH (EXCEPT US, CND)		
		< IC >			
IC101	8-752-384-15	IC CXD2530Q			
IC102	8-759-537-11	IC SM5852FS-E2			
IC201	8-759-054-12	IC PQ09RA1			
IC202	8-759-443-41	IC RH5VL40AA-T1C			
IC203	8-759-324-40	IC KIA7805PI			

Ref. No.	Part No.	Description			Remark
IC204	8-759-444-86	IC BA8272F-E2			
IC301	8-759-040-83	IC BA6287F			
IC302	8-752-898-75	IC CXP84124-078Q			
IC303	8-759-253-82	IC AT24C16N-10SI-TR			
IC401	8-759-494-78	IC TC9464FN-EL			
		< TRANSISTOR >			
Q201	8-729-016-83	TRANSISTOR 2SB1446			
Q202	8-729-901-00	TRANSISTOR DTC124EK			
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q204	8-729-027-31	TRANSISTOR DTA124EKA-T146			
Q205	8-729-822-05	TRANSISTOR 2SD1622-ST-TD			
Q301	8-729-020-67	TRANSISTOR XN1A312-TX			
Q401	8-729-901-00	TRANSISTOR DTC124EK			
Q402	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q403	8-729-015-39	TRANSISTOR DTC323TK			
Q404	8-729-015-39	TRANSISTOR DTC323TK			
		< RESISTOR >			
R101	1-216-119-00	METAL CHIP	820K	5%	1/10W
R102	1-216-105-00	RES, CHIP	220K	5%	1/10W
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-295-00	SHORT	0		
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R202	1-216-049-11	RES, CHIP	1K	5%	1/10W
R203	1-216-089-00	RES, CHIP	47K	5%	1/10W
R204	1-216-097-00	RES, CHIP	100K	5%	1/10W
R205	1-216-077-00	METAL CHIP	15K	5%	1/10W
R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R207	1-216-089-00	RES, CHIP	47K	5%	1/10W
R208	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R301	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R302	1-216-089-00	RES, CHIP	47K	5%	1/10W
R303	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R304	1-216-089-00	RES, CHIP	47K	5%	1/10W
R305	1-216-089-00	RES, CHIP	47K	5%	1/10W
R306	1-216-089-00	RES, CHIP	47K	5%	1/10W
R307	1-216-089-00	RES, CHIP	47K	5%	1/10W
R308	1-216-089-00	RES, CHIP	47K	5%	1/10W
R309	1-216-089-00	RES, CHIP	47K	5%	1/10W
R310	1-216-089-00	RES, CHIP	47K	5%	1/10W
R311	1-216-089-00	RES, CHIP	47K	5%	1/10W
R312	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R313	1-216-089-00	RES, CHIP	47K	5%	1/10W (US, CND)
R313	1-216-097-00	RES, CHIP	100K	5%	1/10W (EXCEPT US, CND)
R318	1-216-033-00	METAL CHIP	220	5%	1/10W
R319	1-216-089-00	RES, CHIP	47K	5%	1/10W
R320	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R321	1-216-073-00	METAL CHIP	10K	5%	1/10W
R332	1-216-097-00	RES, CHIP	100K	5%	1/10W
R333	1-216-295-00	SHORT	0		
R334	1-216-295-00	SHORT	0		
R335	1-216-295-00	SHORT	0		
R343	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R401	1-216-033-00	METAL CHIP	220	5%	1/10W
R405	1-216-033-00	METAL CHIP	220	5%	1/10W
R406	1-216-033-00	METAL CHIP	220	5%	1/10W
R407	1-216-097-00	RES, CHIP	100K	5%	1/10W
R408	1-216-097-00	RES, CHIP	100K	5%	1/10W
R411	1-216-029-00	METAL CHIP	150	5%	1/10W
R501	1-216-089-00	RES, CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV301	1-223-834-11	RES, ADJ, CARBON 47K			
RV302	1-225-412-11	RES, VAR SLIDE 10K (ELEVATOR LINER POSITION SENSOR)			
		< SWITCH >			
SW301	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE EJECT END DETECT)			
SW302	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE IN/OUT DETECT)			
SW303	1-571-532-21	SWITCH, TACTIL (⏏)			
		< VIBRATOR >			
X301	1-767-261-21	VIBRATOR, CERAMIC (8MHz)			
X401	1-767-511-11	VIBRATOR, CERAMIC (16.930MHz)			
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		MISCELLANEOUS			
		**********			
165	1-664-627-11	MAIN FLEXIBLE BOARD			
210	1-664-626-11	OP FLEXIBLE BOARD			
⚠211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP			
M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE			
M102	A-3291-955-A	MOTOR SUB ASSY, SLED			
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)			
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)			
**********					
		**********			
		HARDWARE LIST			
		**********			
#3	7-685-781-09	SCREW +PTT 2X4 (S)			
#4	7-624-104-04	STOP RING 2.0, TYPE-E			
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2			
#6	7-628-253-00	SCREW +PS 2X4			
#7	7-627-553-27	SCREW, PRECISION +P 2X2.5			
#8	7-624-102-04	STOP RING 1.5, TYPE-E			
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3			
#10	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE3			
#11	7-685-780-09	SCREW +PTT 2X3 (S)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.08	Correction-1, Correction-2 and Correction-3 are included.
1.0	1998.09	Supplement-4
	1998.05	Correction-3
	1998.04	Correction-2
	1998.03	Supplement-3
	1997.07	Supplement-2
	1997.04	Supplement-1
	1997.03	Correction-1
	1997.01	New